BULLETIN OF WELLESLEY COLLEGE

CATALOGUE NUMBER 1968-1969
JULY 1968

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July 1968

Bulletins published six times a year by Wellesley College, Green Hall, Wellesley, Massachusetts 02181. January, one; April, one; July, one; October, one; November, two. Second-Class postage paid at Boston, Massachusetts and at additional mailing offices.

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Secondary school students and their parents who wish an interview with an officer of the Board of Admission are advised to write well in advance to secure an appointment.

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STASYS GOSTAUTAS, B.A., Fordham University; M.A., New York University *Instructor in Spanish*

DALE GOTTLIEB,[3] B.A., M.A., Brandeis University *Instructor in Philosophy*

EUGENE H. GOVER, B.A., Columbia College; M.A., Brandeis University *Instructor in Mathematics*

JOHN GRAHAM, B.A., Coumbia College; M.A., Brandeis University *Instructor in Mathematics*

CLIFFORD GREEN, B.A., Sydney University; B.D., Melbourne College of Divinity; S.T.M., Union Theological Seminary *Instructor in Religion and Biblical Studies*

YVETTE GUICHAOUA, Licence d'Anglais, Dipl. E.S., C.A.P.E.S., University of Rennes *Instructor in French*

JOHN HARDWIG, B.A., Yale University *Instructor in Philosophy*

HELEN K. HENDERSON,[3] B.A., Syracuse University; M.A., University of California (Berkeley) *Instructor in Anthropology*

MARY ROBBINS HOOVER, B.A., Montclair State College; M.S., Purdue University *Instructor in Mathematics*

EUGENIA P. JANIS, B.A., University of Michigan; M.A., Harvard University *Instructor in Art*

[3] Part-time.

WILLIAM C. LAMB, JR.,[3] B.A., Grinnell College; M.S., London School of Economics *Instructor in Political Science*
DAVID LESTER, B.A., M.A., Cambridge University; M.A., Ph.D., Brandeis University *Instructor in Psychology*
MARTINE ASTIER LOUTFI, Dipl. E.S., University of Paris *Instructor in French*
MIRANDA C. MARVIN, B.A., Bryn Mawr College *Instructor in Art*
DOROTHY M. MILNE, B.S., Skidmore College *Instructor in Physical Education*
VICKI E. MISTACCO, B.A., New York University; M.A., Middlebury College *Instructor in French*
KENWORTH W. MOFFETT, B.A., Columbia University; M.A., Harvard University *Instructor in Art*
BONNIE NUNNALLY, A.A., Pasadena City College; B.A., University of Southern California *Instructor in Physical Education*
KATHERINE O'CONNOR,[3] B.A., Bryn Mawr College; M.A., Harvard University *Instructor in Russian*
ANTHONY J. OLDCORN, B.A., M.A., Oxford University; M.A., University of Virginia *Instructor in Italian*
MICHELE GERARD PIEMME, Licence en Philologie Romane, University of Liege *Instructor in French*
DAVID M. PRITZKER, B.A., Yale University; M.A., Brandeis University *Instructor in Mathematics*
KATHRYN L. REICHARD,[3] B.A., Wellesley College *Instructor in Music*
FRANKLIN W. ROBINSON, B.A., M.A., Harvard University *Instructor in Art*
ELIZABETH S. SCHAADT, B.S., Mary Washington College of the University of Virginia *Instructor in Physical Education*
PHOEBE K. SCHNITZER,[3] B.A., Wellesley College; Ph.D., Harvard University *Instructor in Psychology*
SHARON CADMAN SEELIG, B.A., Carleton College; M.A., Columbia University *Instructor in English*
MARIE-CECILE FORISSIER SHENTON, Licence d'Anglais Dipl. E.S., C.A.P.E.S., University of Lyon *Instructor in French*
CLAIRE H. SIEGELBAUM, B.A., Oberlin College; M.A., Ph.D., Harvard University *Instructor in Political History*
JANET E. SMITHSON, M.S., Muhlenberg College; Ph.D., Brown University *Instructor in Biology*
KARL F. SPIELMANN, JR., B.A., Syracuse University; M.A., Harvard University *Instructor in Political Science*
MARY H. STALEY, B.S., Tufts University *Instructor in Physical Education*
GEORGE JOHN STAMBOLIAN, B.A., Dartmouth College; M.A., University of Wisconsin *Instructor in French*
BING SUNG,[3] B.A., M.A., Harvard University *Instructor in Psychology*
ROBERT F. TINKER,[3] B.A., Swarthmore College; M.S., Stanford University *Instructor in Physics*
MARION K. TORCHIA,[3] B.A., College of New Rochelle; M.A., Yale University *Instructor in History and Latin*

[3] Part-time.

Harold Young Vanderpool, B.A., Harding College; M.A., Abilene Christian College; S.T.B., Harvard University
Instructor in Religion and Biblical Studies

Susan Vogel,[3] B.A. Swarthmore College; M.A., Ph.D. Clark University
Instructor in Psychology

Ernest E. Wallwork, Jr.,[3] B.S. Bucknell University; M.B.A., Harvard Business School; B. D., Yale University
Instructor in Religion and Biblical Studies

Paul Worthman, B.A., Williams College; M.A., Yale University
Instructor in History

Stringner Sue-Yue Yang, B.A., Hunter College; Ph.D., Syracuse University
Instructor in Biology

LECTURERS

Paul Rogers Barstow, B.A., Williams College; M.F.A., Yale University
Lecturer in Theatre Studies; Director of the Theatre

Jeannie Baticheff, Licence d'Anglais, Agrégation d'Anglais, Agrégation de Lettres Modernes, Sorbonne
Lecturer in French

Sylvia Leah Berkman,[2] B.A., Brown University; M.A., Ph.D., Radcliffe College
Lecturer in English

Miriam Haskell Berlin,[3] B.A., Smith College; M.A., Ph.D., Radcliffe College
Lecturer in History

Anne De Coussey Clapp,[3] B.A., Smith College; M.F.A., Yale University
Lecturer in Art

Ruth Deutsch, M.A., Radcliffe College; M.A., Stanford University; M.A., Yale University
Lecturer in German

Ann L. Diller,[3] B.A., Maryville College; M.A., University of Tulsa
Lecturer in Education

Esther Pastene Edwards,[3] B.A., Wellesley College; M.A., Boston University; Ed.D., Harvard University
Lecturer in Education

Earl R. Flansburgh,[3] B.Arch., Cornell University; M. Arch., Massachusetts Institute of Technology
Lecturer in Art

Alice Williamson Jones,[3] B.S., Douglass College; M.A., Wellesley College; Ph.D., Washington University
Lecturer in Biology

Louise Catherine Keller, B.A., Radcliffe College; Ed.M., Boston University
Lecturer in Education; Director of the Page Memorial School

Helen Chu-yu Tai Lin, B.S., National Taiwan University
Lecturer in Chinese on the Edith Stix Wasserman Foundation

Jeanette McPherrin, B.A., Scripps College; M.A., Claremont College
Lecturer in French; Dean of Freshmen

Leon Regan,[3] B.V.A., University of Massachusetts; M.Ed., Boston University
Lecturer in Education

Catherine B. Rice, B.A., Radcliffe College; M.A., Wellesley College
Lecturer in Physics

[2] Appointed for the second semester.
[3] Part-time.

H. PAUL SANTMIRE, B.A., Harvard College; B.D., The Lutheran Theological Seminary; Th.D., Harvard University
Lecturer in Religion and Biblical Studies

ELWOOD F. SMITH, O.P.,[3] B.A., St. Thomas College; S.T.Lr., General Studium of The Order of Preachers; S.T.L., S.T.D., Immaculate Conception College
Lecturer in Religion and Biblical Studies

IRENE RITA PIERCE STIVER,[3] B.A., Brooklyn College; M.A., Ph.D., Cornell University *Lecturer in Psychology*

PRESTON N. WILLIAMS,[3] B.A., M.A., Washington and Jefferson College; B.D., Johnson C. Smith University; S.T.M., Yale University; Ph.D., Harvard University *Lecturer in Religion and Biblical Studies*

RESIDENT ARTISTS

SIGMUND MORTON ABELES, B.A., University of South Carolina; M.F.A., Columbia University

JAMES WILSON RAYEN, B.A., B.F.A., M.F.A., Yale University

NATHANIEL LARRABEE II,[3] B.F.A., Boston University

PERFORMING MUSICIANS[3]

GRACE A. FELDMAN, B.A., Brooklyn College; M.Mus., Yale School of Music *Instructor in Viola da Gamba*

CORINNE HALLER FLAVIN, B.Mus., New England Conservatory of Music *Acting Director of Chamber Music*

KLAUS GOETZE *Instructor in Piano*

EARL L. HEDBERG *Instructor in Viola*

PHYLLIS MOSS *Instructor in Piano*

LOLA ODIAGA, B.S., M.S., Juilliard School of Music; M.Mus., Yale School of Music *Instructor in Harpsichord*

HAZEL F. O'DONNELL, B.Mus., M. Mus., Boston University
Instructor in Voice

LOUISE CAME PAPPOUTSAKIS *Instructor in Harp*

AYRTON PINTO, B.Mus., Brazilian Conservatory of Music; M.Mus., New England Conservatory of Music *Instructor in Violin*

ISABELLE C. PLASTER, B.A., Wellesley College; M.Mus., New England Conservatory of Music *Assistant in Chamber Music*

ELINOR PREBLE, Mus.B., New England Conservatory of Music
Instructor in Flute

HARRY SHAPIRO *Instructor in Horn*

LOUIS SPEYER *Instructor in Oboe and English Horn*

FRANK COCHRAN TAYLOR II, B.A., Yale University *Instructor in Organ*

MARY CROWLEY VIVIAN, B.A., Radcliffe College *Instructor in Organ*

WILLIAM G. WRZESIEN, B.Mus.Ed., M.Mus., New England Conservatory of Music *Instructor in Clarinet*

ALFRED ZIGHERA *Instructor in Cello*

[3] Part-time.

OFFICERS OF ADMINISTRATION

Ruth M. Adams, Ph.D., L.H.D., Litt.D. — *President; Professor of English*
Phyllis Fleming, Ph.D. — *Dean of The College; Professor of Physics*
Philip Monford Phibbs, Ph.D. — *Executive Assistant to the President; Associate Professor of Political Science*
Joan Barker Melvin, Ph.D. — *Dean of Students; Dean of Juniors; Assistant Professor of Biology*
Margaret B. Marsh, Ph.D. — *Assistant Dean of Students*
Jeanette McPherrin, M.A. — *Dean of Freshmen; Lecturer in French*
Maud H. Chaplin, Ph.D. — *Dean of Sophomores; Instructor in History*
M. Lucetta Mowry, Ph.D., L.H.D. — *Dean of Seniors; Professor of Religion and Biblical Studies*
Elizabeth Stanton Blake, Ph.D. — *Foreign Student Adviser; Assistant Professor of French*
Gwenyth Morgan Rhome, M.A. — *Recorder*
Joan Fiss Bishop, M.A. — *Director of the Placement Office*
Barbara M. Clough, M.A. — *Director of Admission*
Elinor Anderson Gilfillan, B.A. — *Director of the Development Fund*
Jean Glasscock, M.A. — *Coordinator of Special Events*
Elizabeth Buys, B.A. — *Director of Publicity*
John Kenneth Spring, M.B.A. — *Treasurer*
Robert J. Schneider, M.B.A. — *Business Manager*
Margaret P. Robinson, M.A. — *Director of the Museum*
Helen Bates Anderson, B.S. — *Director of the Personnel Office*
Albert M. Coffey, Jr., B.S. — *Manager of the Physical Plant Department*
Elizabeth Cornwall, B.S. — *Director of Food Service*
Harry Bertram Jones — *Controller*
John Louis Lelievre — *Purchasing Agent*
Maxine Simonds — *Director of Housekeeping*
H. Paul Santmire, Th.D. — *Chaplain; Lecturer in Religion and Biblical Studies*
Anne M. Wood, B.A. — *Financial Aid Officer*
F. Jean Wells, B.A. — *Director of Special Fund Programs*

LIBRARIANS

Helen Margaret Brown, B.A., M.S. — *Librarian*
Eleanor Adams, B.S., M.S. — *Senior Cataloguer*
Tomira Buxell, LL.M., M.S. — *Senior Cataloguer for Reclassification*
Elizabeth Simmons Cookson, B.A., M.S. — *Cataloguer*
Jeanne E. Doherty, B.S. in Ed. — *Documents Librarian*
Hannah Dustin French, B.A., B.S., M.S. — *Research Librarian, Special Collections*
Ann Millicent Greene, B.S. in Ed., M.S. — *Serials Librarian*
Marion Elizabeth Kanaly, B.A., B.S., M.A. — *Associate Librarian, Readers' Services*
Wynifred Evelyn Eaves Lemaitre, B.A., B.L.S. — *Cataloguer*
Beatrice Mae Quartz, B.A., B.A.L.S., M.A. — *Associate Librarian, Technical Services*

IOLA CORLISS SCHEUFELE	*Administrative Assistant, Acquisitions Department*
ELLEN M. SIMPSON, B.A.	*Assistant in Readers' Services*
LYDIA YEE-BING TUNG, B.A., M.S.L.	*Cataloguer*
MARY W. WALLACE, B.A., M.S.	*Music Librarian*
HELEN MARY WALKER, B.A., M.S.	*Cataloguer*

PHYSICIANS

THOMAS F. KEIGHLEY, JR., M.D.	*Director of Health Services*
ELIZABETH VEEDER, M.D.	*Associate Physician*
GERTRUDE E. MURRAY, M.D.	*Associate Physician*
HAROLD DIXON STALVEY, M.D.	*Consulting Psychiatrist*
JEANNETTE HATFIELD CORWIN, M.D.	*Associate Consulting Psychiatrist*
LIONEL ABBOTT SCHWARTZ, M.D.	*Associate Consulting Psychiatrist*

RESIDENT HEADS OF HOUSES

SARAH K. ELLINWOOD	*Head of Pomeroy Hall*
HONORIA BROOKE GILLESPIE	*Head of Tower Court*
DOROTHY E. LEACH	*Head of Stone-Davis Halls*
PATRICIA KING	*Assistant Head of Stone-Davis Halls*
MARGARET W. MAKAR, B.S.	*Head of Munger Hall*
JEAN MCCRACKEN MILLIGAN	*Head of Claflin Hall*
EMMA C. RIDDLE	*Head of Freeman Hall*
JANET W. SHAW	*Head of Beebe Hall*
DOROTHY M. SLENSBY	*Head of Shafer Hall*
ELIZABETH THOMPSON, B.A.	*Head of Severance Hall*
ANNE M. WOOD, B.A.	*Head of Cazenove Hall*

SENIOR ADMINISTRATIVE STAFF

WILLIAM L. BIGGART, JR.	*Manager, Duplicating Office*
MARY JOHNSON BUTLER, B.A.	*Program Director, Development Fund*
ELIZABETH M. CHANDLER, B.A.,	*Assistant to the Director of Admission*
JOHN H. CHAPMAN, B.S.	*Superintendent of Utilities*
DORIS E. DRESCHER, B.S.	*Secretary to the President*
CARL I. EATON	*Data Processing Supervisor*
EDWARD B. HUBBARD, B.A.	*Superintendent of Buildings*
ESTHER B. JONAH	*Administrative Assistant to the Director of Admission*
ROBERT TODD PRATT, B.A., M.A.	*Assistant Business Manager*
FRANK SELLNER, B.S.	*Supervisor of Grounds and Security*
BARBARA MAYNARD TWOMBLY, B.A.	*Manager, Information Bureau*
CHARLES C. WALLACE, B.S.	*Manager, the Wellesley College Club*

THE COLLEGE

Wellesley College is a liberal arts college for women situated in the township of Wellesley, Massachusetts, twelve miles west of Boston. Much of the five hundred acre campus was once the country estate of Henry Fowle Durant, a wealthy Boston lawyer. In the 1860s Mr. Durant and his wife, moved by religious convictions, decided to establish a residential Christian college that would "offer to young women opportunities for education equivalent to those usually provided in colleges for young men." It was Mr. Durant's hope that in this college young women could prepare themselves "for great conflicts, for vast reforms in social life, for noblest usefulness." The decision was followed by years of preparation until the College received a charter on March 17, 1870 and in September 1875 was opened to three hundred and fourteen students.

The resources and size of the College grew steadily. The single building with which Wellesley started, College Hall, housed all students and faculty and contained the library, chapel, classrooms, and laboratories. As the number of students increased, other buildings were added, but College Hall remained the center of community life until it was destroyed by a great fire in 1914. Gradually Wellesley was rebuilt; in place of one enormous structure housing many activities, buildings for special uses were erected on the various hills on the campus.

Today more than forty buildings provide facilities for the intellectual and community life of the College. Thirteen of them are residence halls for undergraduate students. The halls are large, with the result that the student, who finds that academic instruction is usually given in small groups, forms a wide acquaintance in the course of her residence with people who come from many different regions.

Wellesley College believes that the study of the liberal arts develops perspective and intellectual strength for the endeavors of a lifetime. It seeks to give to the student broad knowledge of her cultural heritage and to develop her competence in and respect for disciplined, honest thinking. These purposes of the College have re-

mained constant since its founding, while the particulars of its programs are frequently revised under the influences of the changing contemporary world.

The faculty is composed of approximately 160 full-time members, men and women trained in many different universities here and abroad and chosen to maintain Wellesley's tradition of good teaching and sound scholarship. The student body includes more than 1,700 young women who bring to the community the cultural, economic, and regional diversity of the United States, and also representation of many foreign countries. Because of the size and composition of the College the student meets a wide range of viewpoints and fields of special interest; yet she finds that the policies of today permit education to be an individual process as it was when the College began.

Most classes are small enough to make possible the exchange of ideas between student and teacher and to enable the faculty to know and plan for the needs of each individual. Upperclass students may undertake further individual work within the regular program or in an honors program.

The entering student is invited to explore various fields in the liberal arts and sciences, particularly those of her probable special interests. When she decides on her area of concentration, she can then select courses in other fields to provide complementing or contrasting experiences. These, together with her major, will enable her to achieve a broadly liberal education.

Each student is expected to take the initiative in planning her program and in meeting her academic and residential obligations. At various times before reaching decisions she may need counsel or may wish to talk freely with an older person about her academic or personal life. At such times she can turn to her class dean who keeps in touch with her academic progress and her personal welfare, to her instructors, to the advisers, to the chaplain, or to leaders of religious groups, to the resident head of her house, or to the college physicians and psychiatrists. After she selects a major, she will also find helpful the chairman or her adviser in the major department. If she has financial difficulties, she may turn to the Financial Aid Officer or the Student's Aid Society. If she wishes paid work during the aca-

demic year or in vacations, or if as a graduating senior or an alumna she wishes employment, the Placement Office is prepared to help her. Because maturing independence is respected, advice is not thrust upon the student, but it is readily available from experts in various areas and from intelligent adults interested in each individual.

The learning situation created by student and teacher is strengthened by the quality of the physical facilities available for their use. At Wellesley the student of the biological or physical sciences finds laboratories unusually well equipped for undergraduate work and having in addition equipment for the work of graduate students and professors, whose research activities she may be invited to share. The student of art finds in the permanent collections on the campus a representative selection of monuments and extensive collections of books, slides, and photographs, as well as rotating loan exhibits. The student of music finds listening rooms where she has access to large libraries of records and practice rooms equipped with grand pianos. The student of language has a language laboratory available for her use, and for interested students of modern languages special residential corridors may be maintained. The student of statistics has an interdepartmental laboratory open to her. Computer facilities are available for instruction and research. Any student interested in the young child may observe and work with boys and girls in the college laboratory for child study.

Every student benefits from the library collections which are unusual in size and quality for an undergraduate college. The working library contains approximately 405,000 volumes carefully selected to meet the needs of the faculty as well as the students. Subscriptions to about 1,600 American and foreign periodicals and the deposit of certain government publications important to the student of the social sciences add to the usefulness of the library. Special collections, containing rare items as well as important collateral works, offer opportunities for research to the undergraduate student and the advanced scholar. The College is fortunate in having distinguished collections in English poetry, Italian literature, Medieval European literature, and on the Far East. Except for the rare volumes in these and other special collections, books are kept on open shelves to which the student has immediate access.

A broad program of extracurricular activities, made possible by the size and residential character of the College, supplements the liberal arts curriculum. From them the student may choose those which will contribute most to her enjoyment and growth. She may attend lectures by visiting scholars and public figures, readings by poets, music concerts, and art, book, and scientific exhibits. Through participation in various organizations she may test and develop interests in such areas as music, theatre, dance, sports, journalism, social service, political and civic activity. Whatever her special interest, she finds opportunity to associate informally, to work cooperatively with others, and to maintain through sound habits of physical exercise the health which effective study requires.

Some student groups, such as choir and theatre, have professional direction; most of them are organized and conducted entirely by students. Two of them, the Chapel Organization and the College Government Association, are sponsored jointly by students and faculty. The Chapel Organization conducts student-sponsored religious activities, coordinates denominational and interfaith programs, and supports the chapel services sponsored by the College. Wellesley exists with an awareness of its Christian tradition; it offers daily services led by members of the community and Sunday services led by well-known ministers, at all of which attendance is voluntary. The College Government Association, to which all students belong, has executive, legislative, and judicial branches with elected student and faculty representatives, in each of which student representatives form the majority. This Association supports the methods and spirit of responsible democracy; it charters all extracurricular organizations, establishes committees such as the Student Education Committee, and acts on various social and residential regulations. Outside of the College, enriching cultural and social opportunities exist in the Greater Boston area which can be reached during the day in about one hour by the College's bus service or by public transportation.

The present college is in marked contrast to the small faculty and student body, the one building, the collection of eight thousand books, and the restricted social life with which Wellesley started. Yet the serene beauty of the campus remains unchanged, and the

student now as always finds opportunity and is encouraged to develop her standards of ethics and taste, of personal and civic responsibility, and her intellectual and creative gifts.

PRESIDENTS

Ada Howard (1875-1881)
Alice Freeman (1881-1887)
Helen Shafer (1887-1894)
Julia Irvine (1894-1899)
Caroline Hazard (1899-1910)
Ellen Fitz Pendleton (1911-1936)
Mildred McAfee Horton (1936-1949)
Margaret Clapp (1949-1966)
Ruth M. Adams (1966-)

THE CURRICULUM

The curriculum provides a framework within which each student is invited to construct a program of studies, suited to her individual interests, which will enable her to achieve a sound liberal education. The ordered progression of studies and varieties in methods of learning are designed to help her build on her earlier studies in school without repetition and to develop mature intellectual independence during her four years in college.

By the time she receives the Bachelor of Arts degree she is expected to have demonstrated that she can use English, both in speaking and writing, in a clear, orderly, precise way, and that she can use at least one foreign language; that she has some acquaintance with the major strands of her intellectual and moral heritage expressed in the history and in the great works of literature, art, music, and philosophy of the West; that she has some acquaintance with the objective study of human behavior and social institutions, and some understanding of the relationships among men in economic and political contexts; and that she has some understanding of the natural world in which she lives, of ways in which knowledge of the physical and biological environment is gained, and of the conceptual structures through which it is expressed. Finally, she will have demonstrated that she has achieved some learning in depth by having taken a structured, sequential program in a discipline or related set of disciplines.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Each candidate for the degree of Bachelor of Arts is required to complete 32 units of academic work at a C average or better. The normal period of time in which to earn the degree is four years and a normal program of study consists of four courses a semester.

REQUIRED STUDIES

Unless exempted, each student elects three units from each of the groups of subjects listed below.

GROUP A *Literature, Foreign Languages, Art, and Music*
Three units are to be elected from courses in the Departments of Art, English, French, German, Greek, Latin, Italian, Music, Russian, and Spanish, and in Chinese and in Extradepartmental literature courses*

GROUP B *Social Science, Religion and Biblical Studies, and Philosophy*
One or two units are to be elected from courses in the Departments of History, Philosophy, and Religion and Biblical Studies, and one or two from the Departments of Economics, Political Science, Psychology, Sociology and Anthropology

GROUP C *Science and Mathematics*
Three units, at least one of which shall be in a laboratory science, are to be elected from courses in Departments of Astronomy, Biological Sciences, Chemistry, Geology, Mathematics, Physics**

Required studies may be taken at any time in the four years. Students are urged to explore various areas in the first two years with a view to finding the one in which they wish to major. In their exploration they will elect courses which serve to meet some of the requirements. The remaining requirements may be met in the last two years with courses which will either complement the work chosen for the major or provide a useful contrast to it.

In addition each student elects Physical Education 121 (freshman year) and Physical Education 122 (sophomore year). No academic credit is given.

Each student must show before the beginning of her senior year that she has some proficiency in the use of at least one foreign language, ancient or modern. This requirement may be met by passing one of the language tests of the College Entrance Examination Board, either the Achievement Test at a score of at least 610, or the Advanced Placement Examination at a score of at least 3, or

* See p. 122.

** Extradepartmental 218, History of Science, counts for distribution as a non-laboratory science.

by the completion at Wellesley of two units of language study at the second-year college level or higher. It may not be met by summer school courses.

THE MAJOR FIELD

Of the 32 units required for graduation, at least 8 but not more than 14 are to be taken in the major department.

During the freshman year all students will give thought to the choice of their major subject and some may reach a final decision. In the second semester of the sophomore year each student selects a major subject and prepares for the Recorder a statement of the courses she plans to elect in it. If she wishes to make revisions later, her final plan, after being approved by the chairman of the major department, should be presented to the Recorder not later than the second semester of her junior year.

Some students wish to center their study upon an area, a period, or a subject which cuts across the lines of departmental organization. This can be done by meeting the minimum requirements for a major in one department, and by careful selection of free electives and of courses chosen to meet the general degree requirements. A student who is interested in a program of this kind should consult her class dean and the chairmen of the appropriate departments as soon as possible in her college course. Among the numerous possibilities for such study are programs centering on Asia, Russia, Latin America, the United States; the Middle Ages, the Renaissance; Classical Archeology, International Relations, Molecular Biology, Theatre Studies.

Courses are classified in grades I, II, and III, grade I indicating elementary courses and grade III the most advanced. Each student shall include in her program at least 4 units of grade III work, at least 2 of which shall be in the major. The program in the senior year may not include more units of grade I than of grade III work and at least two must be of grade III.

FURTHER REQUIREMENTS

Standard of Written and Spoken English. Students are expected to use good English in their written work in all departments. A student in any class who fails to maintain acceptable standards may be referred to the Department of English for remedial work. Students are also expected to maintain good standards of spoken

English. For any student who has a genuine disability, remedial work in speech can be arranged.

Within the 32 units required for the degree the student is permitted to elect:

A maximum of 14 units in any one department.

A maximum of two beginning courses in modern foreign languages.

A maximum of 4 units in studio art if balanced by the required amount of work in the history of art. (See department statement.)

A maximum of 6 units in Education.

A maximum of 6 units in Theatre Studies.

A student must have resided in the College for at least two years unless she has had permission to commute from her parents' home, and she must have completed satisfactorily two years of study at Wellesley College, one of which must be the senior year unless as a married senior she has special permission to spend the senior year at one of five specified colleges.

EXEMPTION FROM REQUIRED STUDIES; ADVANCED PLACEMENT

A student may be exempted from any of the studies required for the degree, provided she can demonstrate to the department concerned that she has reasonable competence in the materials of the course.

Students who have taken the Advanced Placement Tests of the College Entrance Examination Board and achieved a score of 4 (Honors) or 5 (High Honors) are eligible for exemption. Other students who believe themselves qualified may apply through the class dean for an exemption examination. Permission to take the examination rests with the class dean and the chairman of the department concerned. (See Special Examinations below.) In addition to the evidence offered by the examination some departments may require the student to present a paper or an acceptable laboratory notebook.

Exemption, when granted, will permit the election of advanced courses.

Students are urged to enter the most advanced courses for which they are prepared by previous study.

CREDIT OUTSIDE THE REGULAR COURSE PROGRAM

Students who enter under the Advanced Placement Program of the College Entrance Examination Board and who have received scores of 4 or 5 may apply for college credit in all subjects. An eligible student who requests two units of credit will be awarded them provided she does not register in college for courses which cover substantially the same material as that in which she receives credit. Further credits for each other course will be awarded after she has completed a course in the subject at Wellesley College at an appropriate level and has earned a grade of C or better. There is no limit to the number of units which the student may earn through the Advanced Placement Program, though not more than two will be credited in any one subject.

It is also possible for students to earn one or two units of credit towards the degree by independent study in the summer, tested and evaluated by a Wellesley department. Those wishing to undertake such independent study for credit should consult the appropriate department and the class dean.

COURSE AND SPECIAL EXAMINATIONS

An examination period occurs at the end of each semester. Examinations for the removal of conditions and deficiencies may be taken during the examination periods at the end of each semester and at other specified times.

Special examinations are offered in September to qualified students to earn credit for work done independently, for admission to advanced courses without the stated prerequisites, and for exemption from required studies.

Students who wish credit towards the degree for work done independently in the summer or for more than two units of summer school work should consult the appropriate department and the class dean, and should apply to the Recorder at least a month in advance for a special examination given at the beginning of the college year.

RESEARCH OR INDIVIDUAL STUDY

Each department of the College which offers a major course of study provides the opportunity for certain students to undertake a program of individual study directed by a member of the faculty. Under this program an eligible student may undertake a research project or a program of reading in a particular field. The results of her work normally will be presented in a thesis or in a series of short essays. The conditions for admission to this work in each department are described under the course designated 350. Further opportunities for research and individual study are described under the Honors program.

FRESHMAN-SOPHOMORE COLLOQUIA

Colloquia offer freshmen and sophomores the opportunity to work in small groups on concentrated study of a well-defined topic. They stress independent work, discussion, and student reports. (See p. 127.)

CROSS-REGISTRATION PROGRAM WITH MASSACHUSETTS INSTITUTE OF TECHNOLOGY

A five-year experimental program of cross registration of students at Wellesley and the Massachusetts Institute of Technology officially inaugurated in 1968-69 allows students to elect courses at the other institution which may give added breadth or depth to their total programs. This arrangement substantially extends the educational opportunities for students at both institutions while maintaining the separate strengths, independence, and integrity of each institution.

A Wellesley student interested in exploring the possibilities of electing a specific course at M.I.T. should consult her department adviser or class dean.

ACADEMIC DISTINCTIONS AND HONORS

The Bachelor of Arts Degree with Honors in the Major Subject

The honors program is open to students with a strong academic record who wish to undertake independent work in their senior year.

Each candidate for honors completes an individually chosen research project, supervised by a member of the faculty and entered on her record as 370, Honors Research (2 units). The successful completion of the independent work and of the honors examinations leads to the award of Honors or High Honors in the Major Subject.

OTHER ACADEMIC DISTINCTIONS

Excellence in academic work is recognized by honorary titles which are open to all students and are awarded without reference to financial need.

The College names as Pendleton Scholars certain entering freshmen who submit outstanding credentials for admission. It confers Freshman Honors on the students who maintain high academic standing during the freshman year and names in convocation the juniors and seniors whose records after the freshman year are at the level of Wellesley College Scholars and Durant Scholars. Final honors, conferred at Commencement, are based on academic records after the freshman year and include the title Wellesley College Scholar for high academic standing and Durant Scholar for the highest academic standing.

Juniors and seniors are elected to membership in the Eta of Massachusetts Chapter of Phi Beta Kappa on the basis of their total academic achievement in college, and seniors who are majoring in the sciences may be elected to associate membership in the Wellesley Chapter of Sigma Xi, national honorary scientific society.

On recommendation of the faculty the Trustees award to four seniors who intend to pursue graduate studies the title of Trustee Scholar. The awards are made on a competitive basis in two categories: two for graduate study without restriction as to subject; two for graduate study undertaken as preparation for college teaching. The title is honorary; in cases of financial need stipends are awarded to the Scholars or, if not required by them, to alternates who need financial assistance. Applications and supporting credentials are due in the President's Office by January 15.

Certain prizes have been established at the College for the recognition of merit in a particular field. They carry a small stipend or gift and usually bear the name of the donor or the person honored.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

A candidate for the degree of Master of Arts is required to complete 8 units of graduate work, which ordinarily includes a thesis embodying the results of original research. The program is arranged by the student's major department and is subject to the approval of the Committee on Graduate Instruction. A reading knowledge of French or German, to be tested by examination at entrance, is required. Individual departments may require a second language. At least one year in residence is required of all candidates.

Some departments, but not all, accept candidates for the Master of Arts degree. The College does not maintain a program of courses for graduate students separate from those offered for undergraduates. Properly qualified graduate students are admitted to grade III courses, to seminars, and to course 350, Research or Individual Study.

Information regarding admission, living arrangements, graduate assistantships and scholarships will be found in the bulletin, *Graduate Study at Wellesley College,* which will be sent upon application to the Secretary of the Committee on Graduate Instruction.

SPECIAL PROGRAMS AND PREPARATION FOR CAREERS

SPECIAL PROGRAMS

Use of the Summer Vacation

Students are encouraged to make constructive use of the long summer vacation, supplementing through it the work and activities of the academic year. Several possibilities are recognized, for example, field or laboratory work at the College or elsewhere, travel, vocational experience, and serious and ordered reading. Regardless of their specific activities, all students are expected to undertake some serious reading each summer. To assist them, each of the departments makes available a reading list designed to enrich the student's knowledge of her major subject.

The College sponsors a Summer Internship in Government that enables students from various departments to learn at first hand of the operations of the Federal Government. Students who are accepted for the program spend ten weeks in Washington during the summer preceding their senior year. A director arranges assignments in various government bureaus, Congressional offices, and headquarters of the Democratic and Republican National Committees, and meets regularly with the interns during the ten weeks.

The College participates in the Internship Program in Economics, sponsored by the National Association of Business Economists. Economics majors who meet the high standards set for candidates in this program may be placed in salaried positions in private or public agencies in all parts of the country during the summer following the junior year, to carry out applied economic research under the direction of senior economists.

The Junior Year Abroad

Qualified students may apply for admission to the various groups spending the junior year in Europe. Wellesley students may study in Paris under the plan sponsored by Sweet Briar College, or in Munich under the auspices of Wayne University, or in Florence, Geneva, Madrid, or Paris with groups organized by Smith Col-

lege. A student who wishes to join one of these groups must have a good academic record and competence in the language of the country in which she plans to study; in general two years of study of the language at the college level are necessary to provide adequate preparation. In advance of making application, a student must have the approval of the chairman of her major department and of her class dean.

PREPARATION FOR CAREERS

College Teaching and Research

A student who wishes to enter college teaching and research will find that the undergraduate work of the College provides preparation for graduate study leading to advanced degrees in the arts and sciences. She should consult as early as possible the chairman of her major department, or of the department in which she hopes to pursue graduate study, to learn which courses in her field of special interest and which foreign languages will be most useful to her. It should be noted that for graduate study in many fields a reading knowledge of two specified languages is required. The student will find her class dean, her faculty adviser, the chairmen of departments, and the Placement Office helpful in locating information about graduate schools.

Preparation for Secondary School Teaching

Some teaching positions in public as well as in private schools are open to college graduates without further study. Students who complete the course in supervised teaching and three other units of study in education and two in psychology are able to fulfill the minimum requirements for a teaching license in many states.

Wellesley is one of a group of colleges affiliated with the Harvard Graduate School of Education in a program which affords graduates of the cooperating colleges special opportunities for supervised teaching in the summer, for paid teaching internships during the regular school year, and for graduate study at Harvard.

A student who intends to teach should consult the chairman of the Department of Education as soon as possible about requirements for certification and ways of preparing to meet them.

MEDICAL SCHOOL

In general, the minimum requirements for admission to recognized medical schools can be met by four units in chemistry, two units in physics, and two units in biology. Because there is some variation in the minimum requirements, a student should consult the most recent catalogues of the particular medical schools in which she is interested.

Many students planning to study medicine elect two pre-medical sciences in the freshman year and major in one of them. Many medical schools stress the importance of a liberal education as a preparation for medical studies and accept applicants regardless of their major provided they have fulfilled the minimum requirements for admission. A student, therefore, is advised to major in the field of her greatest interest. Students wishing to prepare for medical school should consult Professor Jean V. Crawford, Department of Chemistry.

THE CIVIL SERVICE

A student wishing to qualify for examinations offered by the United States Civil Service Commission or various state and local civil service agencies should consult her major department and the Placement Office about current requirements.

OTHER PROFESSIONS

In her undergraduate work a student may meet the requirements for the degree of Bachelor of Arts and at the same time prepare to enter professional schools, for example, architecture, law, medicine, social service administration, teaching. A sound education in the liberal arts is considered the best preparation for admission to most professional schools, but a student who is interested in any one of the professions should consult her class dean to discuss the particular emphasis which she should make in her undergraduate program. She should also consult as soon as possible the catalogue of the graduate school which she has chosen.

DEPARTMENTAL COURSES OF INSTRUCTION

1968-1969

The following courses of instruction are offered by the several departments. The College reserves the right to withdraw any course not chosen by at least six students.

All courses are classified in grades I, II, III; grade I indicates elementary courses and grade III the most advanced courses. Grade I courses are numbered 100, etc.; grade II courses 200, etc.; grade III courses 300, etc.

The first semester is indicated by (1) following the course number, the second semester by (2). The number of units of credit appears in parentheses following the course title. A semester course which carries one unit of credit requires approximately eleven hours of work each week spent partly in class and partly in preparation. The amount of time scheduled for classes varies with the subject from two periods each week in many courses in the humanities and social sciences to three, four, or five scheduled periods in certain courses in foreign languages, in art and music, and in the sciences. Classes are scheduled from Monday morning through late Friday afternoon; examinations may be scheduled from Monday morning through late Saturday afternoon.

ART

Professors Shell *(Chairman)*, Vermeule;[a2] Associate Professor Frisch; Assistant Professors Anderson, Fergusson, Wallace[a]; Instructors: Mr. Moffett, Mrs. Janis, Miss Marvin, Mr. Robinson, Mrs. Friedman; Lecturers: Mrs. Clapp, Mr. Flansburgh; Resident Artists: Mr. Rayen, Mr. Abeles, Mr. Larrabee

History of Art

Many of the courses in art include some laboratory work in the one or more mediums with which the course is concerned. The department believes that laboratory training has great value in developing observation

[a] Absent on leave.

[a2] Absent on leave for the second semester.

and understanding of artistic problems, and for this reason requires it of majoring students. It should be stated, however, that no particular aptitude is required and that the work is adjusted to the student's ability.

100 (1-2). INTRODUCTORY COURSE (2 units)

The major styles in Western architecture, sculpture, and painting from ancient Greece to c. 1800. A foundation for further study of the history of art. Simple laboratory work (requiring no previous training or artistic skill) planned to give the student a greater understanding of artistic problems. Open only to freshmen and sophomores. *The Staff*

201 (2). GREEK SCULPTURE AND PAINTING (1 unit)

The origins and development of Greek art. Study of focal monuments and artists in each successive period. Laboratory work consisting largely of modeling and carving. Open to freshmen and sophomores who have taken or are taking 100, and to juniors and seniors without prerequisite. *Miss Marvin, Mr. Larabee*

202 (1). MEDIEVAL SCULPTURE AND PAINTING (1 unit)

A study of Western European sculpture, manuscript painting, ivories, and metal work from the late Roman through the High Gothic period. Laboratory work consisting largely of modeling, carving, and illumination. Open to sophomores who have taken 100, and to juniors and seniors without prerequisite. *Mr. Fergusson, Mrs. Frisch*

203 (2). MEDIEVAL ARCHITECTURE (1 unit)

The architecture of Western Europe from the fall of Rome to the beginning of the Renaissance, with particular concentration on the great Romanesque and Gothic monuments. Occasional laboratory work. Prerequisite, same as for 201. *Mr. Fergusson*

207 (2). CHINESE ART (1 unit)

Survey of the major artistic traditions of China in monuments of the Bronze Age, Buddhist sculpture, and painting from the Han to the Ch'ing Dynasty. Open to sophomores, juniors, and seniors who have taken one course in the history of art or History 226, 227, or 338. *Mrs. Clapp*

209 (1).* ETRUSCAN AND ROMAN ART (1 unit)

Traditions and experiments in the architecture, sculpture, and painting of ancient Italy and the Roman Empire abroad, from the Etruscans to the early Byzantine period. Prerequisite, 201 or permission of the instructor. (Not offered in 1968-69.) *Mrs. Vermeule*

215 (1). EUROPEAN ART THROUGH THE RENAISSANCE (1 unit)

The major movements in architecture, sculpture, and especially paint-

* Offered in alternate years.

ing from classical antiquity to c. 1550. Open to sophomores who have taken History 100 or its equivalent, or Italian 100 or its equivalent, and to juniors and seniors without prerequisite. Not open to students who have taken Art 100. *Mrs. Janis*

216 (2). EUROPEAN ART FROM THE RENAISSANCE TO THE PRESENT (1 unit)

Western art from the Renaissance to the present with emphasis on painting, sculpture, and architecture. Open to sophomores who have taken 215, and to juniors and seniors without prerequisite. Not open to students who have taken 100. *Mrs. Janis*

219 (1) (2). PAINTING AND SCULPTURE OF THE NINETEENTH CENTURY (1 unit)

A study of painting and sculpture of the 19th century in Europe and America with emphasis on France. Open to sophomores who have taken 100, by permission to freshmen who are taking 100, and to juniors and seniors without prerequisite. *Mrs. Janis*

220 (1). PAINTING AND SCULPTURE OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN SOUTHERN EUROPE (1 unit)

A study of Italian and Spanish painting and sculpture with special emphasis on Caravaggio and Bernini, and on El Greco and Velasquez. Prerequisite, same as for 202. *Mr. Robinson*

221 (2). PAINTING AND SCULPTURE OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN NORTHERN EUROPE (1 unit)

Flemish, Dutch, French, and German painting and sculpture of the 17th century with emphasis on Rembrandt and Rubens. French and English painting and sculpture of the 18th century. Prerequisite, same as for 202. *Mr. Robinson*

224 (1-2). MODERN ART (2 units)

The major developments in painting, sculpture, and architecture from early in this century to the present. Laboratory work in the first term. Prerequisite, 100 or 216 or 219.

Mr. Moffett, Mrs. Frisch

225 (1). AMERICAN ART (1 unit)

A survey of American art from colonial times to the present. Emphasis on developments in painting, sculpture, architecture, and the decorative arts before 1900. Some attention given to the relation between the art and the social history and literature of the time. Prerequisite, same as for 202. *Mr. Moffett*

302 (1). ITALIAN PAINTING: THE FOURTEENTH AND FIFTEENTH CENTURIES (1 unit)

A study of selected artists whose work significantly illustrates the character of the late medieval and the early Renaissance styles. Particular attention to Florentine masters. Laboratory work. Open to juniors and seniors who have taken or are taking a grade II course in the department, and by permission to qualified students.

Mr. Shell, Mr. Larrabee

303 (2). ITALIAN PAINTING: THE SIXTEENTH CENTURY (1 unit)

Studies of the major masters of the High Renaissance, followed by the examination of some selected Mannerist painters, and of those developments within 16th century painting which lead in the direction of the Baroque. Considerable attention to Venetian masters. Laboratory work. Prerequisite, same as for 302. *Mr. Shell, Mr. Rayen*

304 (1). LATE MEDIEVAL AND RENAISSANCE SCULPTURE (1 unit)

A study of major sculptors from the 14th century to the end of the 16th century with emphasis on Italy and the work of Giovanni Pisano, Donatello, Ghiberti, and Michelangelo. Prerequisite, same as for 302.

Mrs. Anderson

306 (1) (2). THE GRAPHIC ARTS FROM THE RENAISSANCE TO THE PRESENT (1 unit)

Emphasis on the styles of Dürer, Rembrandt, Goya, Picasso. Special attention to the influence of technique upon style. Laboratory instruction in the processes of woodcut, engraving, etching, lithography. Visits to collections. Open by permission to juniors and seniors who have taken a grade II course in the department.

Mr. Robinson (1), Mrs. Anderson (2), Mr. Abeles

308 (2).* RENAISSANCE AND BAROQUE ARCHITECTURE (1 unit)

The early and High Renaissance, Mannerist, and Baroque styles of the 15th through the 18th centuries, with particular emphasis on Italy. Prerequisite, same as for 302. *Mrs. Friedman*

311 (1). PAINTING OF NORTHERN EUROPE (1 unit)

The period from the late 14th century to the mid-16th century in France, Germany, and the Low Countries. Laboratory work. Prerequisite, same as for 302. *Mrs. Anderson, Mrs. Frisch*

* Offered in alternate years.

312 (2). PROBLEMS IN NINETEENTH AND EARLY TWENTIETH CENTURY ART (1 unit)

A study of special problems of interpretation in 19th and early 20th century art, *e.g.*, 'Romantic Imagery,' 'Interpretations of Manet,' 'Photography and Painting,' 'Historicism,' 'Origins of Abstraction.' Emphasis on extensive reading and class discussion. Prerequisite, 219 or permission of the instructor. *Mrs. Janis*

330 (2).° SEMINAR. ITALIAN PAINTING (1 unit)

Intensive study of one or more of the fundamental problems in the history of Italian painting. Open by permission to juniors and seniors who have taken 302 or 303. *Mr. Shell*

331 (2).° SEMINAR (1 unit)

Topic for 1969-70 to be announced. (Not offered in 1968-69.) *Mr. Shell*

332 (2).° SEMINAR. MEDIEVAL ART (1 unit)

Intensive study of one or a series of related problems in medieval painting or sculpture. Open by permission to juniors and seniors who have taken 202 or 203. (Not offered in 1968-69.)

333 (1).° SEMINAR. BAROQUE ART (1 unit)

Problems of style, connoisseurship, and iconology in 17th century art, concentrating on major Italian or northern Baroque masters. Open by permission to juniors and seniors who have taken 220 or 221. (Not offered in 1968-69.)

334 (2).° SEMINAR. ANCIENT ART (1 unit)

Intensive study of one or more of the fundamental problems in the history of ancient art. Open to juniors and seniors who have taken 201 or by permission of the instructor. *Miss Marvin*

335 (1).° SEMINAR. SELECTED PROBLEMS IN THE HISTORY OF ART (1 unit)

Topic for 1968-69: Intensive study of problems in the field of modern art. Prerequisite, permission of the instructor. *Mr. Flansburgh*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to juniors and seniors who have taken or are taking a grade III course.

° Offered in alternate years.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

STUDIO COURSES

As many as 4 units of studio work may be counted toward the degree provided an equal number of units in the history of art is counted. Studio work should ordinarily follow or be concurrent with work in the history of art; not more than 1 unit of studio work may be elected in advance of election of work in the history of art.

104 (2).° INTRODUCTORY SCULPTURE (1 unit)

Basic modeling with emphasis on intensive observation of natural forms to develop the ability to translate volume and space into sculptural terms. Some work in terra cotta, direct plaster, and casting. Open to sophomores, juniors, and seniors, and by permission to freshmen who have studied art before entering college. Four periods of class instruction and four periods of studio practice. (Not offered in 1968-69.) *Mr. Abeles*

105 (1) (2). INTRODUCTORY DRAWING (1 unit)

Introductory drawing with emphasis on basic forms in spatial relationships. Stress on the essential control of line in a variety of mediums. Prerequisite, same as for 104. Four periods of class instruction and four periods of studio practice. *Mr. Abeles, Mr. Larrabee* (1), *Mr. Rayen* (2)

106 (1). INTRODUCTORY COLOR AND PAINTING (1 unit)

Basic problems in the interaction of colors; study of basic forms in plastic relationships. Prerequisite, same as for 104. Five periods of class instruction and three of studio practice. *Mr. Rayen*

206 (2). WATERCOLOR AND OIL PAINTING (1 unit)

Landscape, still life, and painting from model. Open to sophomores, juniors, and seniors who have taken 100, 105, or 106. Five periods of class instruction and three of studio practice. *Mrs. Frisch*

208 (2).° ADVANCED DRAWING (1 unit)

An approach to drawing based upon both direct visual observation and stylistic analysis of master drawings. Problems dealing with the progress from line to form to chiaroscuro. Study of anatomy and composition. Open to sophomores, juniors, and seniors who have taken 105, or by permission upon presentation of a portfolio. Five periods of class instruction and three of studio practice. *Mr. Abeles*

° Offered in alternate years.

DIRECTIONS FOR ELECTION

A major in art must include 100 (unless an exemption examination is passed) and at least 6 further units in the history of art, chosen to make adequate distribution in the different arts and different periods. Normally 4 units should be elected outside the special area of concentration.

The department does not encourage over-specialization in one area but, by careful choice of related courses, a student majoring in art may plan a field of concentration emphasizing one period such as Ancient, Medieval, Renaissance, Baroque, 19th or 20th Century art. Students interested in such a plan should consult the chairman of the department as early in the freshman or sophomore year as possible.

A reading knowledge of German and French, or Italian, is strongly recommended.

The attention of students is called to the extradepartmental program in classical archaeology.

ASTRONOMY

PROFESSOR HILL *(Chairman);* ASSOCIATE PROFESSOR BIRNEY

103 (1) (2). INTRODUCTION TO ASTRONOMY (1 unit)

Relationships of earth and sky; the solar system, stars, and galaxies. Open to students not eligible for 105. Two periods of lecture and discussion weekly with a third period every other week; laboratory in alternate weeks, and evening work at the Observatory, unscheduled, for observation and use of the telescopes. *Mr. Birney*

105 (1-2). PRINCIPLES OF ASTRONOMY (2 units)

First semester: relationships of earth and sky, the sun and other ordinary stars, star clusters and nebulae, the Milky Way Galaxy. Second semester: variable and unusual stars, multiple systems including the solar system, the universe of galaxies, cosmology. Stress on observational evidence for astronomical concepts. Open to students who have an admission unit in physics or have taken any college physics, and who have four admission units in mathematics or have taken or are taking Mathematics [109],† 110 or the equivalent. Two periods weekly with a third period every other week; laboratory, some evening work at the Observatory, unscheduled, for observation and for use of the telescopes. The first semester may be taken independently. *Miss Hill*

200 (2). MODERN PHYSICS (1 unit)

For description and prerequisite, see Physics 200.

† Numbers in brackets refer to courses listed only in earlier catalogues.

202 (1). OPTICS (1 unit)

For description and prerequisite, see Physics 202.

203 (2). RECENT DEVELOPMENTS IN ASTRONOMY (1 unit)

Contemporary problems in optical, radio, and space astronomy. Astronomical observations from outside the earth's atmosphere. Galactic and extragalactic radio sources. Radio galaxies and quasers. Prerequisite, 103 or 105. *Mr. Birney*

206 (1). BASIC ASTRONOMICAL TECHNIQUES (1 unit)

Visual and photographic use of telescopes. Measurement and reduction of photographic plates. Analysis of observations. Selected problems in practical astronomy. Prerequisite, 103 or 105, and Mathematics [109]† or 111. *Miss Hill*

216 (1). APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES I. (1 unit)

For description and prerequisite, see Extradepartmental 216.

217 (2). APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES II. (1 unit)

For description and prerequisite, see Extradepartmental 217.

302 (2). GALACTIC STRUCTURE (1 unit)

Distribution and kinematics of the stellar and nonstellar components of the Galaxy. Local structure, solar motion, velocity ellipsoids. Large scale structure, populations, rotation. Prerequisite, 103 or 105, and 217 or Mathematics [204]† or 208. *Miss Hill*

304 (1).* INTRODUCTION TO ASTROPHYSICS (1 unit)

The physical nature of the sun and stars derived from analysis of their spectra. Prerequisite, same as for 302. (Not offered in 1968-69.)

305 (1).* SELECTED TOPICS (1 unit)

Intensive study of a specific field. Prerequisite, same as for 302. *Mr. Birney*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open to seniors by permission.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

† Numbers in brackets refer to courses listed only in earlier catalogues.
* Offered in alternate years.

DIRECTIONS FOR ELECTION

The following courses form the minimum major: 105 or 103-203, 206, 217, 302, 345; Physics 200, 202. In planning a major program students should note that some of these courses have prerequisites in mathematics and/or physics. Additional courses for the major may be elected in the Departments of Physics, Mathematics, Astronomy.

A substantial background in physics is required for graduate study in astronomy. A student planning to enter graduate school in astronomy should supplement the minimum major with courses in physics, including Physics 306 and, if possible, other work at the grade III level. She is also urged to acquire a reading knowledge of French, Russian, or German.

BIOLOGICAL SCIENCES

PROFESSORS CREIGHTON, WYCKOFF[a], FISKE, PADYKULA *(Chairman);* ASSOCIATE PROFESSOR GAUTHIER; ASSISTANT PROFESSORS WIDMAYER, SHOOP, HARRISON, CONANT, MELVIN; INSTRUCTORS: MR. BIBB, MISS SMITHSON, MRS. ALLEN, MRS. YANG; LECTURER: MRS. JONES

Unless otherwise noted all courses meet for five periods of lecture, discussion, and laboratory weekly.

103 (1). PLANT BIOLOGY (1 unit)

Investigations of plants in the laboratory, field, and greenhouses through observations and experimentation. Open to all undergraduates except those who have taken [102]†. *Mr. Bibb*

104 (2). MICROBIOLOGY (1 unit)

Structure, growth, reproduction, and activities of microorganisms, their interaction with the environment, and their economic uses. Open to all undergraduates except those who have taken [204]†. *Mrs. Allen*

105 (1). ANIMAL BIOLOGY (1 unit)

Investigations of representative animals through observations and experimentation. Emphasis on the development of organ systems; some work in embryology and the theory of organic evolution. Open to all undergraduates except those who have taken [102]†.

Mrs. Fiske, Mrs. Harrison, Mrs. Conant, Mrs. Jones

106 (2). CELL BIOLOGY (1 unit)

Investigations of cells and organisms through observation and experi-

[a] Absent on leave.

† Numbers in brackets refer to courses listed only in earlier catalogues.

mentation. Study of cell structure, cell chemistry, energy relationships, and genetics. Open to all undergraduates except those who have taken [101]†.
Miss Widmayer, Mrs. Yang

150 (1) (2). COLLOQUIUM (1 unit)

For description of topics and directions for applying see p. 127. Open by permission to a limited number of freshmen and sophomore applicants.

201 (1). ENVIRONMENTAL BIOLOGY (1 unit)

Limiting factors of the environment, human populations, pollution, pesticides, parasites, and biological control. Major habitats, biogeography, and succession. Studies in field and laboratory. Open to freshmen and sophomores who have taken 1 unit of biology, and to juniors and seniors without prerequisite. *Mr. Shoop*

202 (2). COMPARATIVE ANATOMY (1 unit)

Comparative anatomy of the chordates with emphasis on evolutionary trends within the vertebrate group. Dissection of representative forms including the dogfish and the cat. Open to freshmen and sophomores who have taken [102]† or 105, and to juniors and seniors without prerequisite.
Mrs. Conant

203 (2). BIOLOGY OF FERNS, GYMNOSPERMS, AND ANGIOSPERMS (1 unit)

Structure, function, and identification of the vascular plants. Observation and experimentation in the laboratory, field, and greenhouses. Open to students who have had [102]† or 103 or the equivalent. *Miss Creighton*

205 (1). GENETICS (1 unit)

Principles of inheritance and their applications to other biological problems. Prerequisite [101]†, 106, or the equivalent. Two periods of lecture and demonstrations and one period of discussion.
Miss Creighton, Miss Widmayer

206 (1). HISTOLOGY-CYTOLOGY I: ANIMAL TISSUES (1 unit)

The microscopic organization of animal cells and tissues. Ultrastructural and cytochemical features considered, especially in relation to functional activity. Laboratory study includes direct experience with selected histological and histochemical techniques. Prerequisite, [101]† or 106, and [102]† or 105 or 202 or the equivalent.
Miss Padykula, Miss Gauthier, Miss Smithson

† Numbers in brackets refer to courses listed only in earlier catalogues.

208 (2). BASIC HORTICULTURE (1 unit)

The fundamentals of cultivation and propagation of house and garden plants and the methods of control of plant pests and diseases. Open to juniors and seniors without prerequisite and to others who have had [102]† or 103 or the equivalent. *Miss Creighton*

301 (1). CELL PHYSIOLOGY (1 unit)

Chemical and physical phenomena of life processes and molecular mechanisms underlying structure and function of cells. Prerequisite, [101]† or 106, and either [102]† or 105, and Chemistry 107, or by permission. Chemistry 201 is recommended. *Mrs. Yang*

302 (2). ANIMAL PHYSIOLOGY (1 unit)

Factors affecting the operation of organ systems in animals. Emphasis on the vertebrates. Prerequisite, 301 or [321]† or 323, or by permission. *Mrs. Fiske, Mrs. Harrison*

303 (2).° PLANT PHYSIOLOGY (1 unit)

Hormonal and other aspects of plant growth and development, physiology of reproduction, mineral nutrition, water relations, photosynthesis, and selected topics. Prerequisite, [102]† or 103, or 301 or by permission. *Mr. Bibb*

304 (2). HISTOLOGY-CYTOLOGY II: ANIMAL ORGAN SYSTEMS (1 unit)

Analysis of the microscopic organization of organ systems, particularly those of the mammal. Detailed examination of selected specialized cells; the relationship of ultrastructural and cytochemical features to characteristic physiological processes. Prerequisite, 206. *Miss Padykula, Miss Gauthier, Miss Smithson*

305 (2).° ADVANCED GENETICS (1 unit)

Principles of heredity and cytological and biochemical aspects of gene structure and function. Prerequisite, 205, and 301 or [321]† or 323. Five periods of lecture, discussion, and laboratory. (Not offered in 1968-69.) *Miss Widmayer*

306 (2). EMBRYOLOGY (1 unit)

Development from the fertilized egg through formation of organ systems. Study of morphogenesis in vertebrates and differentiation dynamics in many organisms. Prerequisite, 202, 301, [321]†, or 323. *Mrs. Jones*

° Offered in alternate years.
† Numbers in brackets refer to courses listed only in earlier catalogues.

307 (2).* POPULATION AND COMMUNITY ECOLOGY (1 unit)

Species population dynamics and structure; interspecific competition and speciation; community structure and metabolism. Extensive readings in primary source material. Laboratory and field studies. Prerequisite, 201. 301 is recommended. *Mr. Shoop*

308 (1).* PLANT MORPHOGENESIS (1 unit)

Development of form in plants; internal and external factors affecting morphogenesis. Preparation of tissues for microscopic study. Prerequisite, 203, 205, and 301. 303 is recommended. (Not offered in 1968-69.) *Miss Creighton*

309 (1). GENERAL BACTERIOLOGY (1 unit)

Structure of bacteria, their physiological processes, and their environmental and biological interrelationships. Emphasis on current bacteriological techniques. Prerequisite, 2 units in biology and Chemistry 103 or 106 or a more advanced course. *Mrs. Allen*

310 (2).* ADVANCED BACTERIOLOGY AND IMMUNOLOGY (1 unit)

Systematic study of bacteria, including serological relationships and roles in disease and immunity. Consideration of recent developments including bacterial genetics. Prerequisite, 309, or permission of the instructor. (Not offered in 1968-69.) *Mrs. Wyckoff*

311 (2).* VIROLOGY (1 unit)

Nature of viruses and their interaction with plant, animal, and bacterial hosts. Experiments with bacterial viruses. Prerequisite, 309 or 310, or permission of the instructor. *Mrs. Allen*

312 (1).* ENDOCRINOLOGY (1 unit)

Intrinsic chemical control through hormones produced by endocrine glands and neurosecretory centers. Individual problems. Prerequisite or corequisite, 301. 302 is recommended. *Mrs. Fiske*

319 (1). ADVANCED CYTOLOGY: ULTRASTRUCTURE AND CYTOCHEMISTRY (1 unit)

Introduction to the principles and major procedures of electron microscopy and cytochemistry. Emphasis on interpretation of ultrastructural and cytochemical features of cellular components, particularly as related to functional activity. Prerequisite, 304, and Chemistry 201. A knowledge of the basic principles of biochemistry strongly recommended. *Miss Padykula, Miss Gauthier, Miss Smithson*

* Offered in alternate years.

322 (1).** Biochemistry I (1 unit)

For description and prerequisite, see Chemistry 322.

323 (2).** Biochemistry II (1 unit)

For description and prerequisite, see Chemistry 323.

330 (1). Seminar (1 unit)

Intensive study of one problem or a series of problems. Critical evaluation of experimental methods and analysis of results. Emphasis on source material. Subject for 1969-70 to be announced. Open by permission to students who have had 5 or more units of work in the department. (Not given in 1968-69.)

345 (2). Senior Major Seminar (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). Research or Individual Study (1 or 2 units)

Open to juniors and seniors by permission.

370 (1-2). Honors Research (2 units)

Required of all honors candidates in the department.

Directions for Election

A biology major must include [101]† or 106, and [102], 103, 104, or 105, or their equivalents; a grade I course in physics, and Chemistry 103 or 106, or their equivalents. Biology 205 and Chemistry 107 and 201 are strongly recommended. Majors are urged to take Physics 104 or 106 and a grade II course in physics, and are advised that a reading knowledge of one or more of the following languages is required (in general) for admission to graduate work: French, German, Russian.

Within the major students may design a program in general biology or one which emphasizes subjects dealing with animals or plants or microorganisms. A broad training in the various aspects of biology is recommended.

Students interested in an interdepartmental major in molecular biology are referred to the Extradepartmental section where the program is described. They should consult with the chairmen of Biological Sciences and Chemistry.

Pre-medical students are referred to the requirements given on p. 36.

** Does not count as part of a major in biological sciences. See major in molecular biology (p. 125).

† Numbers in brackets refer to courses listed only in earlier catalogues.

Biology 305, 307, 308, 310, 311, 312, 313, 319, 322, 323, and 330 are particularly appropriate for graduate students.

CHEMISTRY

PROFESSORS CRAWFORD,[a2] WEBSTER, ROCK *(Chairman);* ASSISTANT PROFESSORS LOEHLIN, FRIEDMAN, HICKS

Unless otherwise noted, all chemistry courses meet for two periods of lecture and one three and one-half hour laboratory appointment weekly.

103 (2). INTRODUCTION TO CHEMISTRY AND CHEMICAL STRUCTURE (1 unit)

Properties of matter, atomic structure, bonding, and stereochemistry, stressing the relationship between structure and properties. Open to students who have taken Physics 100, 103, or 105, or the equivalent, and who have not offered chemistry for admission. Three periods weekly.
Miss Webster

106 (2). CHEMICAL STRUCTURE (1 unit)

Same topics as in 103. Open to students with one admission unit in chemistry who have taken Physics 100, 103, or 105, or the equivalent.
The Staff

107 (1). EQUILIBRIUM (1 unit)

Acid-base, complex-ion, solubility, redox, and solvent-distribution equilibria. Open to students who offer chemistry for admission or who have taken 103 or 106. *The Staff*

201 (1). ORGANIC CHEMISTRY (1 unit)

A study of the synthesis and reactions of typical organic compounds. Prerequisite, 103 or 106, and prerequisite or corequisite, 107; or Advanced Placement credit in chemistry. An additional period required for Advanced Placement students. *Miss Crawford*

202 (2). CHEMICAL THERMODYNAMICS (1 unit)

Elementary thermodynamics with applications to chemical systems. Prerequisite, 103 or 106, and 107; prerequisite or corequisite Mathematics [109]† or 111 or the equivalent. An additional period may be required for Advanced Placement students *Mr. Loehlin*

210 (2). ORGANIC CHEMISTRY (1 unit)

A continuation of Chemistry 201 stressing the mechanisms of organic and bio-organic reactions. Prerequisite, 201. Not to be counted toward the major. *Miss Hicks*

[a2] Absent on leave during the second semester.

† Numbers in brackets refer to courses listed only in earlier catalogues.

301 (1). KINETICS AND MECHANISM I (1 unit)

Correlation of structure and reactivities, primarily in organic systems. Elementary chemical kinetics will be introduced. Prerequisite, 201 and 202. *Miss Crawford, Miss Rock*

302 (2). KINETICS AND MECHANISM II (1 unit)

Correlation of structure and reactivities, primarily in inorganic systems. Further development of chemical kinetics. Prerequisite, 301. *Mr. Friedman*

311 (1). STRUCTURAL CHEMISTRY I (1 unit)

A theoretical and experimental study of molecular structure; spectroscopy, elementary quantum theory, symmetry properties. Prerequisite, 202, and Mathematics [200]†, [204(1)], 207, or Extradepartmental 216; prerequisite or corequisite, a second unit of college physics. *Mr. Loehlin*

312 (2). STRUCTURAL CHEMISTRY II (1 unit)

A theoretical and experimental study of the states of matter; crystal structure, theories of solids, liquids, gases, and surfaces. Prerequisite, 311. *Miss Rock*

317 (2).* CHEMICAL INSTRUMENTATION (1 unit)

The use of instruments in the study of the composition of matter. Prerequisite, 202. *Mr. Loehlin*

318 (1).* SELECTED TOPICS IN INORGANIC CHEMISTRY (1 unit)

Topic for 1968-69: Electron-deficient compounds. *Mr. Friedman*

319 (1).* SELECTED TOPICS IN ORGANIC CHEMISTRY (1 unit)

Ordinarily a different subject each year. Prerequisite or corequisite, 301. (Not offered in 1968-69.)

320 (2).* SELECTED TOPICS IN THEORETICAL CHEMISTRY (1 unit)

Ordinarily a different subject each year. Subject for 1969-70 to be announced. Prerequisite, 202. (Not given in 1968-69.) *Miss Rock*

322 (1). BIOCHEMISTRY I (1 unit)

The study of biochemical energetics, metabolism, oxidative phosphorylation, and the mechanism of biological energy utilization. Prerequisite, 201 and 202. *Miss Hicks*

* Offered in alternate years.

† Numbers in brackets refer to courses listed only in earlier catalogues.

323 (2). BIOCHEMISTRY II (1 unit)

The study of informational macromolecules, the genetic code, protein synthesis, protein structure, and the mechanism of enzyme and coenzyme action. Prerequisite, 301. Not open to students who have taken [321]†.

Miss Hicks

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to students who have taken at least 5 units in chemistry.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

In addition to 8 units in chemistry, which must include 201, 202, 301 302, 311, and 345, the major requires 2 units of college physics and Mathematics [200]†, [204(1)], 207, or Extradepartmental 216. It is strongly recommended that 312, Physics 201 or 306, and at least one additional unit of mathematics be elected.

Students interested in an interdepartmental major in molecular biology are referred to the Extradepartmental section where the program is described. They should consult with the chairman of Biological Sciences and the director of Molecular Biology.

Students are advised to acquire a reading knowledge of German and of either French or Russian.

Premedical students are referred to the requirements given on p. 36.

The American Chemical Society has established a set of requirements which it considers essential for the training of chemists. Students wishing to meet the standard of an accredited chemist as defined by this society should consult the Department of Chemistry.

PLACEMENT AND EXEMPTION EXAMINATIONS

Students entering with scores of 4 or 5 on the Advanced Placement Examination of the College Entrance Examination Board will be placed in Chemistry 201. Other students who have had Advanced Placement courses or two years of secondary school chemistry or other unusually good preparation should apply for an examination covering the work in

† Numbers in brackets refer to courses listed only in earlier catalogues.

Chemistry 106 and/or 107. Such students will be expected to submit laboratory notebooks or reports.

ECONOMICS

PROFESSORS CLEMENCE *(Chairman)*, BELL, GOLDMAN; ASSISTANT PROFESSOR MORRISON; INSTRUCTORS: MRS. CRANDALL, MR. BRODE

100 (1) (2). SURVEY OF MODERN ECONOMICS I (1 unit)

An introduction to economic science: the systematic study of the ways people make a living. Analysis of economic problems and policies with special reference to the United States today. Organization and operation of business enterprise; labor and management; prosperity and depression; money and banking; the national income and its distribution. Open to all undergraduates. Weekly tutorials in (1) and (2) for freshmen. (See Economics 355.) *The Staff*

101 (1) (2). SURVEY OF MODERN ECONOMICS II (1 unit)

Continuation of 100. Competition and monopoly; demand and supply; analysis of firms and industries; balance of payments; foreign aid and foreign trade; economic growth; comparison of the American economy with others. Prerequisite, 100. *The Staff*

201 (1) (2). ECONOMIC ANALYSIS (1 unit)

Micro-economic theory; analysis of the individual household, firm, and industry. Prerequisite, 101. *Mr. Clemence*

202 (1) (2). ECONOMIC ANALYSIS (1 unit)

Macro-economic theory; aggregate analysis of income, output, and employment. Prerequisite, 101. *Mrs. Crandall*

203 (1).* ECONOMIC HISTORY (1 unit)

Development of modern economic society; the emergence of capitalism, the market system and organized economic activity. Open to students who have taken or are taking 101. *Mr. Morrison*

204 (1).* AMERICAN ECONOMIC HISTORY (1 unit)

The development of the American economy from its agrarian beginnings to its contemporary complex industrial structure. Prerequisite, same as for 203. (Not offered in 1968-69.) *Mr. Morrison*

205 (2). CORPORATION FINANCE (1 unit)

The development of the modern corporation and its place in the

* Offered in alternate years.

economy. Corporation organization and financial management. Financial markets; the technical and fundamental aspects of the stock market. Government regulation of corporations and markets. Prerequisite, 101.
Mr. Goldman

208 (2).° ECONOMIC POWER IN THE UNITED STATES (1 unit)

The structure of a "mixed" economy and the sources of economic power in labor, business, and government. Prerequisite, same as for 203. (Not offered in 1968-69.) *Mr. Morrison*

209 (1). THE INTERNATIONAL ECONOMY (1 unit)

Institutions and problems of trade, development, and international economic organization. Prerequisite, 101. (Not offered in 1968-69.)

211 (2). ELEMENTARY STATISTICS (1 unit)

A non-mathematical approach to statistical techniques and their applications in economic analysis. Problems and exercises for machine calculations. Prerequisite, same as for 203. *Mr. Morrison*

212 (1).° ECONOMICS OF ACCOUNTING (1 unit)

Economic analysis in the framework of accounting theory and data. Prerequisite, 101. *Mrs. Bell*

215 (2). ECONOMIC CONTROVERSY (1 unit)

Analysis and policy considerations in current economic problems. Prerequisite, 101 and permission of the instructor. *Mrs. Bell*

301 (1). COMPARATIVE ECONOMIC SYSTEMS (1 unit)

The economics of capitalism, socialism, fascism, and communism. Prerequisite, 201 or 202. *Mr. Goldman*

302 (2). ECONOMIC DEVELOPMENT (1 unit)

The problems and possibilities of the less developed countries. Prerequisite, 201 or 202. *Mr. Goldman*

303 (1). ECONOMIC FLUCTUATIONS (1 unit)

Theoretical, statistical, and historical analysis of the capitalist process. Seasonal variation, cycles, and trends. Emphasis on major fluctuations and their relations to public policies. Prerequisite, 201 and 211.
Mr. Clemence

304 (2). MONETARY THEORY AND POLICY (1 unit)

The structure and mechanisms of the monetary system. Monetary

° Offered in alternate years.

theory, the techniques, the history, the effectiveness, and the controversies of monetary policy. Prerequisite, 202. *Mr. Brode*

305 (1). THE STRUCTURE OF AMERICAN INDUSTRY (1 unit)

Analysis of the structure, conduct, and performance of particular industries in the economy. Prerequisite, 201. *Mrs. Crandall*

307 (1). CONSUMPTION AND MARKETING (1 unit)

Analysis of the theory of consumer choice and of market models applied to patterns of income, spending, and saving. Prerequisite, 201, 202, and 211. *Mrs. Bell*

310 (2). PUBLIC FINANCE (1 unit)

Principles, practices, and economic effects of government expenditure, revenue, debt, and taxation. Special emphasis on current issues of fiscal policy and reform at federal, state, and local levels of government. Prerequisite, 202. *Mr. Morrison*

314 (1). INTERNATIONAL ECONOMICS (1 unit)

Theory of international trade. Methods of adjustment to disequilibrium in balance of payments. The impact of international movements of commodities and capital on economic activity in the past and since World War II. Current problems: international liquidity, economic integration the United States balance of payments. Prerequisite, 201 and 202. *Mr. Brode*

315 (2). HISTORY OF ECONOMIC THOUGHT (1 unit)

The development of economic thought from ancient to modern times. A brief survey of early economic ideas followed by a more detailed examination of the history of economics since 1776. The systems of the leading economists in the light of their own times and of the present day Prerequisite, 201. *Mr. Clemence*

317 (2). QUANTITATIVE ECONOMIC ANALYSIS (1 unit)

The combining of elementary mathematics and statistics with economic theory to explain and predict the behavior of the economy in its parts and as a whole. Prerequisite, 201 or 202, and Mathematics 203 and 206. *Mr. Brode*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to juniors and seniors who have taken 201 and 202. *The Staff*

355 (1). TUTORIAL AND SEMINAR (1 unit)

A survey of economic theory and policy: seminar reports on research and independent study; tutorials for 100 conducted by each student in both semesters, 345 required in the second semester. Open upon department recommendation to senior majors. *Mrs. Bell, Mr. Goldman*

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department. *The Staff*

DIRECTIONS FOR ELECTION

A student who plans to take any course after 101 should consult either her instructor or the department chairman.

Courses 201 and 202 are required for the major and should be taken immediately after 101. Economics 211, or Mathematics 203, is also required. Economics 203 and 204 are strongly recommended.

Students interested in graduate work should consult the chairman as soon as possible.

EDUCATION

ASSOCIATE PROFESSOR ULICH[a2] *(Chairman);* LECTURERS: MRS. KELLER, MR. REGAN, MRS. DILLER, MISS EDWARDS

101 (1) (2). PLATO (1 unit)

For description and prerequisite, see Philosophy 101.

101 (1) (2). INTRODUCTION TO PSYCHOLOGY (1 unit)

For description and prerequisite, see Psychology 101.

103 (1) (2). PHILOSOPHICAL ANALYSIS (1 unit)

For description and prerequisite, see Philosophy 103.

200 (1) (2). PHILOSOPHY OF EDUCATION (1 unit)

The role of philosophical thought and analysis in the clarification of major problems of education. Discussion of the aims of schooling and the relation of knowledge to individual and social values. Open to sophomores, juniors, and seniors. *Mrs. Ulich* (1), *Mrs. Diller* (2)

201 (2).° HISTORY OF EDUCATIONAL IDEAS (1 unit)

Study of the interrelationship between educational ideas and their historical setting, their influence on the educational process, and their

[a2] Absent on leave for the second semester.

° Offered in alternate years.

contribution to the general development of culture. Prerequisite, 200. (Not given in 1968-69.)

202 (2).° THE ELEMENTARY SCHOOL (1 unit)

The organization of the elementary school, its curriculum, the teacher's work, and current educational policies. Emphasis placed on the development and characteristics of elementary school children. Observation in schools required. Prerequisite, 200. *Miss Edwards*

205 (1). THE EDUCATION OF THE YOUNG CHILD (1 unit)

A survey of the theory and practice of early childhood education, including the study of young children as members of society who are responding to educational influences. Four hours a week of observation and participation at the Page Memorial School. Open to juniors and seniors who have taken 200 and a course in psychology. *Mrs. Keller*

206 (2). SOCIOLOGY OF EDUCATION (1 unit)

The school as a social system; social change and education; education and social mobility; comparative influences of social environments and group situations on learning. Prerequisite, 200 and Sociology 102, or, with permission of the instructor, 200 or Sociology 102. *Mr. London*

207 (1) (2). CHILD PSYCHOLOGY (1 unit)

For description and prerequisite, see Psychology 207.

212 (1) (2).° PERSONALITY (1 unit)

For description and prerequisite, see Psychology 212.

217 (1). COGNITIVE PROCESSES (1 unit)

For description and prerequisite, see Psychology 217.

219 (2). LEARNING (1 unit)

For description and prerequisite, see Psychology 219.

300 (1). SECONDARY EDUCATION (1 unit)

The aims, organization, and administration of secondary schools considered in relation to their social, political, and economic environments. Criteria for evaluating curricula and classroom problems included. Prerequisite, 200. *Mrs. Ulich*

301 (2).° EDUCATIONAL PROBLEMS AND PRACTICES IN OTHER COUNTRIES (1 unit)

A comparative study of contemporary educational policies and plans

° Offered in alternate years.

in older and newer nations. Prerequisite, 200. (Not offered in 1968-69.)
Mrs. Ulich

302 (2). METHODS OF TEACHING (1 unit)

Study of teaching objectives and classroom procedures. Review of learning theories. Class divided into groups for six weeks of intensive work in the methods and materials of a specific subject matter; for example, English, foreign language, social science, science. Observation in school required. Prerequisite, 300, or by permission. *Mr. Regan*

303 (2). CURRICULUM AND SUPERVISED TEACHING (1 unit)

Study of curriculum and sequence of courses offered in secondary school. Methods and supervised teaching in student's major teaching field. Prerequisite, 302. *Mr. Regan*

DIRECTIONS FOR ELECTION

Certification for secondary school teaching upon graduation is possible only for students who complete 302 and 303. Massachusetts requires at least two additional units in education and at least one unit of grade II psychology. Most other states require at least three additional units in education and one of grade II psychology. The recommended program is:

Freshman year:	Psychology 101
Sophomore year:	Education 200 and Psychology 212 or 219
Junior year:	Education 300, and 201 or 301
Senior year:	Education 302 and 303.

Although the College does not offer a major in education students may take up to 6 units. Students who intend to teach should (in their freshman year if possible) consult the department concerning the various city and state requirements for the certificate to teach and the appropriate undergraduate preparation for fifth year and paid intern programs which combine professional study with further study in teaching fields and lead to Master's degrees honored by all states. (See also p. 35.)

ANNE L. PAGE MEMORIAL SCHOOL

Director: MRS. KELLER

The Anne L. Page Memorial School for Children is the college laboratory school. It is a center for child study, observation, and participation for students from all departments of the College, and it is especially helpful to students working in the Departments of Education and of Psychology.

ENGLISH

PROFESSORS HOUGHTON, MICHAEL, PRETTYMAN, CORSA, LEVER,[a2] QUINN, LAYMAN, ADAMS, FERRY, GARIS, SPACKS *(Chairman);* ASSOCIATE PROFESSOR CRAIG; ASSISTANT PROFESSORS GOLD, ASWELL[a], KURTZ, PHILLIPS, PINSKY, YOUNGREN; INSTRUCTOR: MRS. SEELIG; LECTURER: MISS BERKMAN

103 (1) (2). INTRODUCTION TO ENGLISH POETRY: 1590-1820 (1 unit)

Introduction to critical analysis through the reading of poems by Shakespeare, Donne, Milton, Pope, and Keats in their historical contexts. Not open to students who have taken [106]†. *The Staff*

108 (2). INTERPRETATIONS OF MAN IN WESTERN LITERATURE (1 unit)

For description and prerequisite, see Extradepartmental 108.

150 (1) (2). COLLOQUIUM (1 unit)

For description of topics and directions for applying see p. 127. Open by permission to a limited number of freshman and sophomore applicants.

Courses 109, 110, 200, 201, and 202 are planned as *workshops in writing,* with informal group meetings and frequent individual conferences. While the emphasis is on constant practice in writing, each course requires a critical reading of pertinent examples of the type of writing being studied. Courses 301 and 302 continue the same plan at an advanced level.

109 (1) (2). EXPERIMENTS IN WRITING (1 unit)

A writing workshop designed to give experience in organizing complex meanings in essays, including various ways of arguing, describing, persuading, defining. Subjects of assigned essays primarily non-literary in nature. Not open to students who have taken [100]†. (See Directions for Election.) *The Staff*

110 (1) (2). STUDIES IN LITERARY PROBLEMS (1 unit)

A writing workshop designed to give experience similar to that described in English 109, but with emphasis on literary analysis. Not open to students who have taken [100]†. (See Directions for Election.) *The Staff*

[a2] Absent on leave for the second semester.

[a] Absent on leave.

† Numbers in brackets refer to courses listed only in earlier catalogues.

200 (1) (2). SHORT NARRATIVE (1 unit)

Sketches and the short story. For interested students, experience in the writing of one-act plays. Prerequisite, [100]†, 109, or 110. Not open to students who are taking another writing course.

Mr. Kurtz, Mrs. Seelig (1), Miss Berkman, Mr. Gold (2)

201 (2). THE CRITICAL ESSAY (1 unit)

Training in the organization and presentation of literary analyses and judgments. Reading of some of the best contemporary criticism. Open to students who have taken or are taking 103 or [106]†. *Mrs. Seelig*

202 (1). POETRY (1 unit)

The writing of short lyrics, and the study of the art and craft of poetry. Open to juniors and seniors, and by permission to sophomores.

Mr. Pinsky

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210 (1) (2). MODERN POETRY (1 unit)

English and American poetry and poets, recent and contemporary Open to students who have taken 103 or [106]†; and by permission to sophomores who have taken Extradepartmental 108; and to juniors and seniors without prerequisite.

Miss Craig, Mr. Pinsky (1), Miss Berkman, Mrs. Youngren, Mr. Pinsky (2)

212 (1) (2). MODERN DRAMA (1 unit)

The study of English, American, and European drama from Ibsen to the present day. Prerequisite, same as for 210.

Mr. Garis (1), Mr. Kurtz (2)

215 (1) (2). INTRODUCTION TO SHAKESPEARE (1 unit)

The study of a number of representative plays with emphasis on their dramatic and poetic aspects. Open to juniors and seniors only. Not open to majors. *Miss Craig (1), Miss Michael (2)*

217 (1) (2). MILTON (1 unit)

A critical study of Milton as a master of lyric, epic, and dramatic poetry, and as a writer of notable prose. Prerequisite, same as for 210.

Miss Lever (1), Miss Prettyman (2)

218 (1). THE HISTORY OF THE ENGLISH NOVEL I (1 unit)

The beginnings of the English novel in the 18th century: Defoe through Jane Austen. Prerequisite, same as for 210.

Miss Corsa, Mr. Kurtz

† Numbers in brackets refer to courses listed only in earlier catalogues.

219 (2). THE HISTORY OF THE ENGLISH NOVEL II (1 unit)

The 19th century English novel: the Brontës through Conrad. Prerequisite, same as for 210. *Miss Corsa, Mr. Kurtz*

220 (1) (2). CHAUCER (1 unit)

A study of Chaucer's poetry, tracing the development of his art, with some attention to the relation of his work to the social and literary background of his time. Prerequisite, same as for 210. *Miss Corsa*

223 (1). AMERICAN LITERATURE I (1 unit)

The beginnings of American literature and the social conditions out of which it grew, followed by a consideration of American writers through Melville. Emphasis upon major figures. Prerequisite, same as for 210. *Miss Michael, Mr. Quinn*

224 (2). AMERICAN LITERATURE II (1 unit)

American writers from Whitman to the present time. Emphasis upon major figures. Prerequisite, same as for 210. *Mr. Quinn, Mr. Phillips*

226 (1) (2). STUDIES IN FICTION (1 unit)

The study of the art of fiction in the writings of major European, English, and American novelists of the 19th and 20th centuries. Prerequisite, same as for 210. Not open to those who have taken 219 or [225]†. *Mr. Phillips (1), Mr. Gold, Mrs. Youngren (2)*

230 (1). ROMANTIC POETS I (1 unit)

Intensive study of poems and critical writings of Wordsworth, Coleridge, and Byron. Prerequisite, same as for 210. *Mr. Ferry*

231 (2). ROMANTIC POETS II (1 unit)

Intensive study of poems and critical writings of Blake, Shelley, and Keats. Prerequisite, same as for 210. *Mr. Ferry*

232 (1) (2).* ENGLISH COMEDY IN VARIOUS GENRES (1 unit)

The development, variety, and continuity of English comic writing, with special attention to such authors as Jonson, Shakespeare, Byron, Dickens, and Shaw. Prerequisite, same as for 210. (Not offered in 1968-69.) *The Staff*

233 (1) (2).* ENGLISH TRAGIC AND HEROIC DRAMA (1 unit)

Continuity and change in English drama from the 16th century to the

† Numbers in brackets refer to courses listed only in earlier catalogues.
* Offered in alternate years.

Restoration. Emphasis on such authors as Marlowe, Shakespeare, Ford, Webster, and Dryden. Prerequisite, same as for 210.

Mr. Layman (1), Mr. Phillips, Mrs. Youngren (2)

234 (1) (2).* THE POET-CRITIC. (1 unit)

Such authors as Sidney, Dryden, Johnson, Coleridge, Arnold, and Eliot, studied as makers of English criticism and as examples of interaction between the practice and theory of poetry. Prerequisite, same as for 210. *Mr. Gold, Mrs. Youngren (1), Mr. Gold, Mrs. Seelig (2)*

235 (1) (2).* FROM NEO-CLASSIC TO ROMANTIC (1 unit)

The shift of sensibility from the 18th to the 19th century, studied with emphasis on such authors as Johnson, Burke, and Wordsworth. Prerequisite, same as for 210. (Not offered in 1968-69.) *The Staff*

Courses 301 and 302 are planned as *workshops in writing*, continuing the training of course 200.

301 (2). THE SHORT STORY (1 unit)

Techniques of short-story writing together with practice in critical evaluation of student work. Intensive reading of selected stories. Open to juniors and seniors who have taken one grade II workshop, and by permission to other qualified students. *Miss Berkman*

302 (2). FICTION (1 unit)

Intensive practice in the writing of prose fiction, the short story or the novella, according to the interest of the individual student. Prerequisite, same as for 301. (Not offered in 1968-69.) *Miss Berkman*

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307. (2). CRITICISM (1 unit)

A survey of some fundamental critical theories from Aristotle to the present; their relation in historical context to continuing problems of interpretation and judgment; their application to specific literary works. Special attention to modern trends in criticism. Open to juniors and seniors who have taken or are taking two grade II literature courses in the department, and by permission to other qualified students.

Miss Craig

308 (1). THE MIDDLE AGES AND RENAISSANCE IN ENGLAND (1 unit)

Permanence and change in some major literary forms from 1350 to

* Offered in alternate years.

1600. Special attention given the religious and intellectual ferment of the 16th century. Reading, both intensive and extensive, to include (partly in modern versions) *Gawain and the Green Knight, Piers Plowman*, More, Sidney, Marlowe, and Spenser. Prerequisite, same as for 307. *Miss Lever*

309 (1-2). SHAKESPEARE (2 units)

Shakespeare as dramatist and poet, seen against the background of his age and its theatre. Intensive study of sixteen plays and the reading of others. Open to juniors and seniors who have taken 2 units of grade II literature courses in the department. Not open to students who have taken 215. *Miss Michael, Miss Prettyman, Mr. Layman*

310 (1). THE AGE OF SATIRE (1 unit)

Dryden, Congreve, Pope, and Swift considered as masters in the satiric tradition. Prerequisite, same as for 307. *Mrs. Spacks*

312 (1). THE ENGLISH LANGUAGE (1 unit)

Contemporary theories of meaning and grammar studied in the context of the history of the English language. Open to juniors and seniors who have taken or are taking a grade II course in the department or in a foreign language or in European history or in philosophy, or by permission of the instructor. *Miss Lever*

314 (1). THE VICTORIAN MIND (1 unit)

Patterns of thought and expression in the prose of Carlyle, Newman, Macaulay, Mill, and Arnold. Prerequisite, same as for 307. Open to nonmajors by permission. *Mr. Houghton*

315 (2). VICTORIAN POETRY (1 unit)

The poetry and criticism of Tennyson, Browning, Arnold, and Hopkins. Prerequisite, 314, or 230 or 231 or 235, and an additional 1-unit grade II literature course. Open to other students by permission. *Mr. Houghton*

316 (2). SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON (1 unit)

The stress and conflict of an age of transition, presented through the innovations of Donne and Jonson in poetry, and of Bacon, Browne, Burton, and Taylor in prose. Brief study of Cavalier and religious poetry. Prerequisite, same as for 307. *Mr. Garis*

317 (2). AMERICAN LITERATURE (1 unit)

Topic for 1968-69: Prose and poetry of the American Renaissance (1830-1855). Prerequisite, same as for 307. *Mr. Quinn*

318 (1) (2). ADVANCED STUDIES IN THE NOVEL (1 unit)

Critical and aesthetic problems in the field of fiction as seen in the work of several major English and American novelists, selected for the most part from the 20th century. Prerequisite, same as for 307.

Mr. Quinn (1), Mr. Garis (2)

319 (1) (2). ADVANCED STUDIES IN MODERN POETRY (1 unit)

A few important poets of the late 19th and 20th centuries, studied intensively with reference to poets who have influenced them. Prerequisite, same as for 307. *Mr. Ferry (1), Miss Craig (2)*

320 (2). LITERARY CROSS CURRENTS (1 unit)

Studies in the varied responses of contemporaneous literary figures to the conflicts and values of their times. Prerequisite, same as for 307. (Not offered in 1968-69.) *Mr. Quinn*

321 (1). SEMINAR (1 unit)

Topic for 1968-69: Elizabethans and the Italian Renaissance. Open by permission to juniors and seniors. *Mr. Layman*

322 (2). SEMINAR (1 unit)

Topic for 1968-69: Studies in contemporary American and British writers. Open by permission to juniors and seniors. *Miss Corsa*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to juniors and seniors.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

A student may take two units but no more than two from the following courses: 103, 109, 110, 150.

For students interested in writing, a sequence of practice courses is provided. Enrollment in writing workshops is, in general, limited to fifteen.

A student majoring in English is required to take English 103 and at least one of the following four courses: 232, 233, 234, 235, ordinarily following 103 and ordinarily preceding other grade II courses. Under

special circumstances a student who has taken 110 or 150 may offer it in fulfillment of the 103 requirement. (A student who has taken [106]† may not take 103, and is not required to take 232, 233, 234, or 235, though these courses are open to her.) All majors must also take either 217 or 220, 309, and two additional units in literature before the modern period.

Students of at least B standing in the work of the department will have first consideration in applying for admission to seminars and 350 work.

Knowledge of English and American history, of the course of European thought, theatre studies, and of at least one foreign literature at an advanced level is of great value to the student of English. See for example, History 213, 217, 310; Philosophy 203, 207, 208, 209; grade II and grade III courses in foreign literatures; Extradepartmental 101, 104, 108, 201, 202, and courses in Theatre Studies.

FRENCH

PROFESSORS LAFEUILLE, GALAND (*Chairman*), FRANÇOIS,[a] ASSOCIATE PROFESSOR MCCULLOCH; ASSISTANT PROFESSORS BLAKE, MALAQUAIS; INSTRUCTORS: MRS. LOUTFI, MR. STAMBOLIAN, MRS. SHENTON, MISS DOUBINS, MISS GUICHAOUA, MRS. PIEMME, MISS MISTACCO; LECTURERS: MISS MCPHERRIN, MISS BATICHEFF

All courses are conducted in French. Oral expression and practice in writing are stressed.

The department reserves the right to place a new student in the course for which she seems best prepared, regardless of the number of units she has offered for admission.

Attention is called to the opportunity for residence in the French Center, Tower Court.

Qualified students may be recommended by the department for the junior year abroad. See page 34, The Junior Year Abroad.

100 (1-2). ELEMENTARY FRENCH (2 units)

Intensive oral work, grammar, and composition. Reading of selected texts as an introduction to French life. Open to students who do not present French for admission. Three periods. *The Staff*

102 (1-2). INTERMEDIATE FRENCH (2 units)

Short stories, novels, and plays illustrating some aspects of French culture. Stress on grammar, vocabulary, and pronunciation. Oral and written work. Prerequisite, 100 or two admission units in French. Not open to students who have taken [101]†. Three periods. *The Staff*

† Numbers in brackets refer to courses listed only in earlier catalogues.

[a] Absent on leave.

104 (1-2). CONTEMPORARY LIFE AND THOUGHT (2 units)

Analysis of selected modern texts: novels, drama, poetry. Grammar review. Study of vocabulary and pronunciation. Frequent written work and oral practice. Prerequisite, [101]†, 102, or three admission units in French. Not open to students who have taken [103]†. Three periods.

The Staff

201 (1-2). FRENCH LITERATURE THROUGH THE CENTURIES (2 units)

First semester: Middle Ages through the 17th century. Second semester: the 18th century to the present. Class discussion of selected masterpieces, short papers, outside reading. Prerequisite, [103]†, 104, or four admission units in French; by permission, 102. Not open to students who have taken [200]†. *The Staff*

203 (1-2). FRENCH MASTERPIECES (2 units)

Introduction to literary analysis. Intensive study of selected works representing various literary techniques and genres: poetry, fiction, drama. Class discussion, oral reports, short papers. Prerequisite, same as for 201. Not open to students who have taken [200]†. *The Staff*

212 (1). MEDIEVAL FRENCH LITERATURE (1 unit)

French literature from the *Chanson de Roland* through Villon. Medieval texts read in modern French. Prerequisite, 201 or 203; by permission, [103]†, 104, or four admission units in French. *Miss McCulloch*

213 (1) (2). FRENCH DRAMA IN THE TWENTIETH CENTURY (1 unit)

Trends in contemporary drama: symbolism, the use of myths, the influence of existentialism, the theatre of the absurd. Prerequisite, same as for 212. *The Staff*

214 (1) (2). THE FRENCH NOVEL IN THE NINETEENTH CENTURY (1 unit)

Emphasis on works by Balzac, Stendhal, Flaubert. Both intensive and extensive reading. Prerequisite, same as for 212.

Mrs. Loutfi (1), Mr. Stambolian, Mrs. Malaquais (2)

215 (1) (2). BAUDELAIRE AND SYMBOLIST POETS (1 unit)

The nature of the poetic experience, studied in the post-romantic poetry of the 19th century. Prerequisite, same as for 212.

Mr. Galand (1), Miss Baticheff (2)

222 (1) (2). STUDIES IN LANGUAGE I (1 unit)

Intensive grammar review, practice in free composition. Prerequisite, 104; by permission, 102.

Miss Blake (1), Miss Guichaoua (2)

† Numbers in brackets refer to courses listed only in earlier catalogues.

224 (2). FRENCH SPEECH (1 unit)

Analysis of French pronunciation. Study of accent and intonation. Exercises in diction based on prose and poetry. Use of the language laboratory. Prerequisite, same as for 222. Recommended to students majoring in French. *Miss Blake*

300 (1). SIXTEENTH CENTURY LITERATURE (1 unit)

Studies in the Renaissance. Authors for 1968-69 will include Rabelais, Ronsard, and Montaigne. Prerequisite, 201 or 203. *Miss Lafeuille*

301. (1). SEVENTEENTH CENTURY LITERATURE I (1 unit)

Baroque and Précieux poets. *L'Astrée.* The birth of the classical theatre: Corneille. Descartes and Pascal. Prerequisite, same as for 300. *Miss Doubins*

302 (2). SEVENTEENTH CENTURY LITERATURE II (1 unit)

The classical theatre: Molière, Racine. La Fayette, La Fontaine, La Bruyère. Prerequisite, same as for 300. *Miss Doubins, Mrs. Piemme*

303 (1). MASTERPIECES OF THE EIGHTEENTH CENTURY (1 unit)

The pursuit of happiness in the century of Enlightenment. Among the authors studied: Prevost, Marivaux, Voltaire, Rousseau, Laclos, Beaumarchais. Prerequisite, same as for 300. *Miss Baticheff*

304 (1). PRE-ROMANTICISM (1 unit)

Awakening of sensibility in the 18th century: Diderot, Rousseau; Mme de Staël, Benjamin Constant, Chateaubriand. Prerequisite, same as for 300. *Miss Lafeuille, Mrs. Malaquais*

305 (2). ROMANTICISM (1 unit)

The romantic generation: Lamartine, Vigny, Hugo, Musset; Stendhal, Balzac. Prerequisite, same as for 300. *Miss Lafeuille, Mrs. Malaquais*

306 (1). TWENTIETH CENTURY LITERATURE I (1 unit)

From symbolism to surrealism. Among the authors studied: Claudel, Proust, Gide, Valéry, Apollinaire, the surrealists. Open to seniors who have taken 2 units of literature at the grade III level. *Mr. Galand, Miss Baticheff*

307 (2). TWENTIETH CENTURY LITERATURE II (1 unit)

Study of the main trends in contemporary literature. Among the authors studied: Mauriac, Malraux, Sartre, Camus, St-John Perse, Robbe-Grillet. Open to seniors who have taken 2 units of literature at the grade III level. *Mr. Galand, Miss Baticheff*

308 (1). STUDIES IN LANGUAGE IIa (1 unit)

Translation into French from modern novels and essays. Study of

French style through analysis of selected texts. Occasional free composition. Prerequisite, 2 units at the grade III level, or 222. *Miss Batícheff*

309 (2). STUDIES IN LANGUAGE IIb (1 unit)

Similar to 308, with different subjects and texts. Prerequisite, same as for 308. *Miss Batícheff*

312 (1). MEDIEVAL FRENCH LITERATURE (1 unit)

See 212. Joint class meetings for 212 and 312. Supplementary assignments and readings in Old French for students at grade III level. Open by permission of the instructor. *Miss McCulloch*

313 (2). STUDY OF ONE AUTHOR (1 unit)

The author studied in 1968-69: Villon. Prerequisite, 4 units of literature at the grade III level. *Miss McCulloch*

321 (1). SEMINAR. STUDY OF ONE AUTHOR (1 unit)

The author studied in 1968-69: Samuel Beckett. Open by permission to students who have taken 4 units of literature at the grade III level. *Mrs. Malaquais*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Prerequisite, same as for 321.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

Course 100 counts for the degree but does not count toward the major. Students who begin with 100 in college and who plan to major in French should consult the chairman of the department during the second term of their freshman year. A student may not count toward the major both 102 and 104. Course 104 may not be elected by students who have taken both 100 and 102.

Students taking their first grade II literature course are urged also to elect 222.

Upperclassmen majoring in French (with the exception of those who carried 2 units of grade II in the freshman year) should not elect more than 3 units of grade II without permission of the department. Majors are required to take two of the following courses: 222, 308, 309. In some cases 224 may also be required.

Courses in other foreign language and literature departments, in art, history (especially 210 and 211), philosophy, English, Extradepartmental 101 and 330, and Religion and Biblical Studies 104 and 105 are recommended for majors.

Students who plan to do graduate work in French are advised to begin or to pursue the study of a second modern language and the study of Latin; those who plan to do graduate work in comparative literature are advised to continue the study of one or more other modern literatures and to acquire proficiency in at least one classical language.

GEOLOGY

ASSOCIATE PROFESSOR REGNIER *(Chairman);* LABORATORY INSTRUCTOR: MRS. CASE

102 (1). INTRODUCTION TO GEOLOGY (1 unit)

Description of the atmosphere, the hydrosphere, and the lithosphere. Analysis of forces which act on the surface of the earth and modify it. Some reading in the field of conservation. Laboratory and field trips.

Mr. Regnier

105 (Summer). INTRODUCTORY AND FIELD GEOLOGY (2 units)

Same topics as 102. A week of orientation, followed by a seven-week field trip from Wellesley to the West Coast. Study of selected areas. Topographic and geologic mapping, use of aerial photographs, stratigraphic measurements, field reports. Some investigation of geological conservation. See Directions for Election. (Not given in 1968.)

Mr. Regnier

200 (2). STRATIGRAPHY (1 unit)

Principles of stratigraphy and sedimentation on which historical geology is based. Evolution of the biosphere. Laboratory work on regional geological problems worked out from maps and subsurface data. Field trips. Prerequisite, 102 or 105. *Mr. Regnier*

202 (1). MINERALOGY (1 unit)

Crystallography; systematic mineralogy of the nonsilicates. Prerequisite, 2 units of physical science, or permission of the instructor. Laboratory.

Mr. Regnier

302 (1). DESCRIPTIVE AND DETERMINATIVE MINERALOGY (1 unit)

Principles of crystal chemistry. Application to the structure and composition of common minerals, methods of study and identification. Open to students who have taken [201]†, and who have taken or are taking Chemistry 107. (Offered only in 1968-69.) *Mr. Regnier*

† Numbers in brackets refer to courses listed only in earlier catalogues.

305 (1).* STRUCTURAL GEOLOGY (1 unit)

Primary and secondary structures. Geophysical methods of structural determination. Prerequisite, 200 and 2 units of physics. *Mr. Regnier*

307 (2).* ROCK-FORMING SILICATES (1 unit)

Optical crystallography. Application to silicates. Systematic mineralogy and phase relations of the rock-forming silicates. Open to students who have taken 202 and Chemistry 107. (Not offered in 1968-69.)

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to juniors and seniors.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

The following courses form the basis of the major: 102 or 105, 200, 202, 305, 307, 345, and 2 units each of chemistry, physics, and mathematics. Students planning to do graduate work are urged to elect advanced courses (grade II or grade III) in chemistry, physics, mathematics, or biology, either in addition to or as a substitute for the indicated courses in geology. Courses in chemical thermodynamics, modern physics, statistics, and genetics are especially recommended.

Geology 105 is a summer course, given in June and July, which combines introductory study of basic topics with extensive field work. A special fee is charged for this course. Interested students should consult the chairman of the department early in the second semester. Students who have completed 102 may be given permission to elect 105 for 1 unit of credit, but preference will be given to applicants who have taken no geology courses. Application blanks may be obtained from the department office or from the Recorder and are due on March 15. Applicants are selected on the basis of their scientific background and physical fitness.

The department will also recommend summer field courses given by other colleges (dealing chiefly with the Rocky Mountain region) to interested students who are not able to take 105, and who have completed 2 or more units of geology at Wellesley. Credit may be given for such courses provided the student's plans are approved in advance by the department.

* Offered in alternate years.

GERMAN

PROFESSORS GOTH *(Chairman)*, ENGEL; ASSISTANT PROFESSOR HAUSAMANN; LECTURER: MRS. DEUTSCH

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German.

The department reserves the right to place a new student in the course for which she seems best prepared, regardless of the number of units she has offered for admission.

Capable students in 100 have the opportunity, by doing special reading during the summer and upon approval of the chairman, to omit 102 and proceed with 202.

Well qualified students will be allowed to spend the junior year in Germany. See p. 34, The Junior Year Abroad.

100 (1-2). ELEMENTARY GERMAN (2 units)

Study of grammar and vocabulary; frequent written exercises; reading of short stories; special emphasis on oral expression. Open to students who do not present German for admission. Three periods. *The Staff*

102 (1-2). INTERMEDIATE GERMAN (2 units)

Study of selected texts representing main trends of German literature in the 19th and 20th centuries; review of fundamental principles of grammar; frequent written and oral exercises; discussion of German culture. Prerequisite, 100, or two admission units in German. Three periods. *The Staff*

202 (1-2). INTRODUCTION TO GERMAN LITERATURE (2 units)

A study of the development of German literature and its cultural background from 800-1800. Works read and discussed: the *Hildebrandslied*, the *Nibelungenlied, Parzival,* the Minnesingers; selections from Luther, Lessing, Schiller, Goethe. Prerequisite, 102, three or more admission units in German, or, by permission, 100. Three periods. *Miss Engel, Mrs. Deutsch*

204 (1). GOETHE (1 unit)

Goethe's life and work; his literary growth studied with emphasis on his development from "Sturm und Drang" to classicism. Prerequisite, [104]† or 202. *Miss Engel*

† Numbers in brackets refer to courses listed only in earlier catalogues.

205 (1).° FROM ROMANTICISM TO REALISM (1 unit)

Study of romantic thought, its literary expression, and its evolution to the realistic thinking of the 19th century. Prerequisite, [104]† or 202. *Miss Goth*

207 (1). ADVANCED COMPOSITION AND CONVERSATION (1 unit)

Intensive work in written and oral German; composition, translation, grammar. Prerequisite, [104]† or 202. (Not offered in 1968-69.)

210 (2).° GERMAN DRAMA OF THE NINETEENTH CENTURY (1 unit)

The development of German drama from idealism to naturalism with special concentration on the works of Kleist, Büchner, Grillparzer, and Hebbel. Prerequisite, [104]† or 202. *Miss Goth*

304 (2). GOETHE'S *Faust* (1 unit)

Intensive study of Goethe's *Faust*, Part I; extensive study of Part II. Prerequisite, 204. *Miss Engel*

305 (2).° SCHILLER (1 unit)

Special emphasis on his mature and late work in both prose and drama. Open to students who have taken 1 unit of grade II work after [104]† or 202. (Not offered in 1968-69.) *Miss Goth*

308 (1). LITERATURE OF THE LATE NINETEENTH AND THE EARLY TWENTIETH CENTURIES (1 unit)

Intellectual and aesthetic trends of the period. Varied texts: dramas, lyric poetry, novels, essays, letters of representative authors. Prerequisite, 1 unit of grade III work. *Miss Goth*

312 (2). LITERATURE OF THE TWENTIETH CENTURY (1 unit)

Aspects and tendencies of 20th century literature from the First World War to the present time. Prerequisite, 308. *Miss Goth*

321 SEMINAR. THE WRITER AND HIS AGE (1 unit)

Intensive study of the works and lives of one or two writers in relation to philosophical, historical, and literary trends of their periods. Topic for 1969-70 to be announced. Prerequisite, 312. (Not offered in 1968-69.) *Miss Goth*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

° Offered in alternate years.
† Numbers in brackets refer to courses listed only in earlier catalogues.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to seniors.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

Course 100 is counted for the degree but not for the major.

Students who begin with 100 and who wish to major in German should consult the department in order to obtain permission to omit 102 and take 202.

Students intending to major in the department are requested to take 202, 204, 304, and at least 2 further units of grade III work.

Courses 205, 207, 210, and one seminar are strongly recommended for the major.

Courses in art, history (especially History 314), philosophy, English, literature courses in other foreign language departments, and Extradepartmental 300 are recommended.

GREEK AND LATIN

PROFESSORS MCCARTHY *(Chairman)*, VERMEULE;[a2] ASSISTANT PROFESSORS LEFKOWITZ, GEFFCKEN, TRACY; INSTRUCTOR: MRS. TORCHIA

GREEK

100 (1-2). BEGINNING GREEK (2 units)

First semester: study of the language with reading of brief passages. Second semester: reading, in one section, of longer passages from classical Greek authors; in the other section, of selections from the New Testament. Open to students who do not present Greek for admission. Three periods.

The Staff

101 (1). HELLENIC HERITAGE (1 unit)

For description and prerequisite, see Extradepartmental 101.

104 (2). CLASSICAL MYTHOLOGY (1 unit)

For description and prerequisite, see Extradepartmental 104.

201 (1). PLATO (1 unit)

Apology, Crito, and selections from the *Phaedo.* The character of

[a2] Absent on leave for the second semester.

Socrates and his position in the development of Greek thought. Prerequisite, 100 or two admission units in Greek, or exemption examination. Three periods. *Miss McCarthy*

205 (2). HOMER'S *Iliad* (1 unit)

Study of selected books in Greek, with emphasis on the oral style of early epic; reading of the rest of the poem in translation; the archaeological background of the period. Prerequisite, 201. Three periods.
Miss Geffcken

206 (2).* GREEK PROSE COMPOSITION (1 unit)

A study of Greek prose style with reading and analysis of Greek texts; review of Attic Greek grammar; translation of English into Greek. Prerequisite, 205. *Miss McCarthy*

207 (2).* HOMER'S *Odyssey* (1 unit)

Study of selected books in Greek; reading of the rest in translation, with emphasis on the origins of the poem in history and myth. Prerequisite, 205. (Not offered in 1968-69.)

228 (1). HISTORY OF GREECE (1 unit)

For description and prerequisite, see History 228.

301 (1-2). GREEK DRAMA (2 units)

Study in Greek of one play by each of the dramatic poets: Aeschylus, Sophocles, Euripides, Aristophanes; reading of other plays in translation. Prerequisite, 205.
Mrs. Vermeule and *Mr. Tracy* (1), *Miss McCarthy* (2)

308 (1-2).* THE GREEK VIEW OF MAN (2 units)

A study of the changing opinion of man's importance as expressed in Greek literature from the archaic age to the Graeco-Roman period. Selected reading from prose and poetry. Open to students who have taken or are taking 301. (Not offered in 1968-69.)
Miss McCarthy (1), Mrs. Lefkowitz (2)

309 (1-2).* THE DEVELOPMENT OF CONCEPTUAL LANGUAGE (2 units)

Analysis of specific myths and images and of the change in means of expression of abstract ideas in Greek literature from Homer to Plato. Selected reading from prose and poetry. Prerequisite, same as for 308.
Mrs. Lefkowitz

* Offered in alternate years.

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates. This requirement is met by electing 308 (2) or 309 (2). A special examination for seniors will integrate the work of the semester with material from other sources.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open to seniors by permission.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

LATIN

100 (1).* BEGINNING LATIN (1 unit)

Fundamentals of the Latin language. Readings from the Vulgate and medieval Latin texts. Open to students who do not present Latin for admission, or by permission. Three periods. *Mrs. Torchia*

101 (2). INTERMEDIATE LATIN (1 unit)

Reading from classical Latin authors. Intensive review of grammar and syntax. Prerequisite, two admission units in Latin, or 100, or by permission. Three periods. *Mrs. Torchia*

103 (1). INTRODUCTION TO VERGIL'S *Æneid* (1 unit)

Study of the poem with selections from books I-VI in Latin. Prerequisite, 101, or three admission units in Latin not including Vergil, or exemption examination. Three periods. *Miss Geffcken*

104 (2). CLASSICAL MYTHOLOGY (1 unit)

For description and prerequisite, see Extradepartmental 104.

106 (1). MEDIEVAL LATIN (1 unit)

Study of the development of the Latin language with readings from the Vulgate and medieval Latin authors. Students will attend lectures in 100, but will read more widely in medieval sources. Prerequisite, 101 or two admission units in Latin. Not open to students who have taken 100. *Mrs. Torchia*

202 (1). ROMAN HUMOR: COMIC TECHNIQUE IN DRAMA AND ORATORY (1 unit)

Reading in Latin of a play of Plautus and an oratio of Cicero; other

* Offered in alternate years.

reading in translation. Prerequisite, four admission units in Latin, or three including Vergil, or 103. *Mrs. Lefkowitz, Miss Geffcken*

203 (2). CATULLUS AND HORACE (1 unit)

Selections from Catullus' poems and Horace's *Odes*. Prerequisite, same as for 202. *Mrs. Lefkowitz, Mr. Tracy*

206 (1).° LATIN PROSE COMPOSITION (1 unit)

A study of the development of Latin style with reading and analysis of selected texts; practice in writing Latin prose. Prerequisite, [201]† or 202 or 203. (Not offered in 1968-69.) *Miss Geffcken*

221 (1). THE DEVELOPMENT OF NEW POETIC FORMS I (1 unit)

Topic for 1968-69: Lucretius; his re-creation of Epicurean Philosophy in poetic form; his use of early Roman and Hellenistic Greek sources. Prerequisite, [201]†, 202, or 203, or Advanced Placement Latin 5, or by permission. *Mrs. Lefkowitz*

222 (2). THE DEVELOPMENT OF NEW POETIC FORMS II (1 unit)

Topic for 1968-69: Latin love elegy. Reading from Catullus, Propertius, Tibullus, and Ovid. Prerequisite, same as for 221. *Miss Geffcken*

229 (2). HISTORY OF ROME (1 unit)

For description and prerequisite, see History 229.

301 (1). VERGIL'S *Eclogues* AND *Georgics* (1 unit)

The poet's re-creation of the Greek pastoral, and his use of didactic and descriptive poetry as a means of examining man's relationship to nature and as political and social commentary. Prerequisite, [211]†, [214], 221, or 222. *Miss Geffcken*

302 (2). VERGIL'S *Æneid* (1 unit)

The artistic achievement of Vergil in the light of earlier literature, especially Homer and Ennius; Vergil's view of man and the destiny of Rome. Prerequisite, same as for 301. *Mr. Tracy*

308. (1).° THE STRUGGLE FOR POWER IN THE LATE REPUBLIC (1 unit)

The events, life, and thought of the late Republic in the letters of Cicero and in the historical writings of Caesar and Sallust. Prerequisite, same as for 301. (Not offered in 1968-69.)

309 (2).° HISTORICAL TRADITION, MORALITY AND IMMORALITY (1 unit)

Livy's portrayal of early Roman heroes as models of behavior, and

° Offered in alternate years.
† Numbers in brackets refer to courses listed only in earlier catalogues.

Ovid's and Propertius' rejection of this moral point of view. Prerequisite, same as for 301. (Not offered in 1968-69.)

316 (1).* THE EFFECTS OF POWER AND AUTHORITY IN THE EMPIRE (1 unit)

The literature of disillusion, both historical and satiric, with emphasis on Tacitus and Juvenal. Prerequisite, same as for 301. *Mr. Tracy*

317 (2).* IMPERIAL ROME: THE NOVEL (1 unit)

The development of the ancient novel, with emphasis on satirical techniques in Petronius and on religious and mythological themes in Apuleius. Prerequisite, same as for 301.

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates. This requirement is met by electing 309 or 317. A special examination for seniors will integrate the work of the semester with material from other courses.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open to seniors by permission.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

To fulfill the distribution requirement in Group A, students may elect any courses in Greek or Latin except 228 and 229.

The following may not be counted toward a major in Greek or Latin: Greek 101; Greek/Latin 104, 228, 229.

All students majoring in Greek must complete 301, 308 or 309. The second semester of 308 or 309 will fulfill the requirement for 345. Students planning graduate work are advised to elect 206 or 207.

All students majoring in Latin are required to complete 301, 302, and at least two units of the following: 308, 309, 316, 317. 309 and 317 will fulfill the requirement for 345. Students planning to teach are advised to elect 206.

Students majoring in Greek or Latin are advised to elect some work in the other language. It should be noted that work in both Greek and Latin is essential for graduate students in the classics.

Courses in ancient history, ancient art, ancient philosophy, and classical mythology are recommended as valuable related work. Students inter-

* Offered in alternate years.

ested in an interdepartmental major in classical archaeology are referred to the Extradepartmental section where the program is described.

Latin students who offer Advanced Placement Latin 5 should elect 221 and/or 222; Advanced Placement Latin 4 normally leads to 202, but under special circumstances permission may be given to elect 221 or 222.

HISTORY

PROFESSORS SCHWARZ,[a] GULICK, ROBINSON *(Chairman);* ASSOCIATE PROFESSORS PREYER, COHEN, COX; ASSISTANT PROFESSORS APT, COOPER, MCLAUGHLIN; INSTRUCTORS: MRS. TORCHIA, MRS. CHAPLIN, MR. WORTHMAN; LECTURER: MRS. BERLIN

100 (1) (2). MEDIEVAL AND EARLY MODERN EUROPEAN HISTORY (1 unit)

An introduction to the history of Europe from the disintegration of the Roman Imperium through the medieval synthesis and the age of the Renaissance and Reformation, designed to provide understanding of the movements and institutions that have formed our common past and present. Open to all undergraduates. *The Staff*

101 (1) (2). MODERN EUROPEAN HISTORY (1 unit)

The elements of continuity and change in the modern world. The emergence of the European state system. The scientific revolution. The expansion of Europe. The Ancien Régime and the age of revolutions. Nationalism and industrialization. World wars; totalitarianism and the development of secular ideologies; present world problems. Open to all undergraduates. *The Staff*

150 (1) (2). COLLOQUIUM (1 unit)

For descriptions of topics and directions for applying see p. 128. Open by permission to a limited number of freshmen and sophomore applicants.

202 (1) (2). EUROPE IN THE TWENTIETH CENTURY (1 unit)

The causes and course of World War I; the peace settlements; the emergence of communism and fascism; social and economic tensions; World War II and the post-war era. Open to students with an admission unit in modern European history who have taken 1 unit in economics, political science, or sociology, and to students who have taken 2 units in these fields. *Mr. Apt*

203 (1-2). HISTORY OF WESTERN THOUGHT (2 units)

The intellectual history of the West from the Greeks to the present day. Open to qualified freshmen (see Directions for Election), to sopho-

[a] Absent on leave.

mores who have taken 1 unit in history or philosophy, and to juniors and seniors without prerequisite. *Mrs. Chaplin (1), Mr. Apt (2)*

208 (2). MODERN AFRICAN HISTORY (1 unit)

Introduction to African history from 1800 to the present; precolonial Africa; colonial empires and policies; independence movements and decolonization. Prerequisite, 2 units in history including 101. (Not offered in 1968-69.)

209 (1-2). HISTORY OF RUSSIA (2 units)

First term: the Kievan State to 1861. Second term: 1861 to the present with emphasis on the Soviet State and its institutions. Open to sophomores who have taken 100 and 101 or courses in the related language and literature, and to juniors and seniors without prerequisite. Either term may be taken independently. *Mrs. Berlin*

210 (1). THE AGE OF LOUIS XIV IN FRANCE (1 unit)

Society and government in France during the "golden age" of absolutism. Analysis of absolute monarchy, foreign relations, and social and intellectual life under Louis XIV. Prerequisite, same as for 209. *Mr. Cox*

211 (2). THE ENLIGHTENMENT, THE FRENCH REVOLUTION, AND NAPOLEON (1 unit)

An analysis of the intellectual, social, and political forces in France after 1715 which combined to produce the crisis of 1789. The era of the Revolution and Empire, with emphasis on the new social and political ideals of this period and on the relations of France with the rest of Europe. Prerequisite, same as for 209. *Mr. Cox*

213 (1-2). HISTORY OF ENGLAND (2 units)

A general survey of English history, political, constitutional, and social, with special emphasis on England's contributions to the modern world. Some attention to problems of historical interpretation. Prerequisite, same as for 209. *Mrs. Robinson*

214 (1). THE HISPANIC WORLD (1 unit)

A survey of Latin America, 1492 to the present, emphasizing the transfer of Iberian culture and peoples to the New World and the evolution of the Latin American nation states. Prerequisite, same as for 209. (Not offered in 1968-69.)

217 (1-2). THE RENAISSANCE AND REFORMATION (2 units)

First semester: Topics in the history of the Renaissance: Italy and selected areas of northern Europe 1300-1600. Second semester: the reformations of the 16th century; emphasis on Luth, Zwingli, Calvin

and the Anglican Settlement, the Radical reformers, the Catholic Reformation, and the relationships between religious developments and the broader historical context. Open to freshmen and sophomores who have taken 100 or related work in art, literature, or philosophy, and to juniors and seniors without prerequisite. *Mrs. McLaughlin*

218 (1-2). HISTORY OF SCIENCE (2 units)

For description and prerequisite, see Extradepartmental 218.

219 (1). MEDIEVAL INSTITUTIONS 1100-1300 (1 unit)

Political, social, and economic evolution, with representative examples drawn from western Europe. Feudal states, the Church, rural society, the growth of towns. Theories of government, knighthood, society; related cultural developments. Prerequisite, same as for 217. *Mr. Cox*

221 (1). COLONIAL AMERICA 1607-1783 (1 unit)

The development of the British colonies in North America, the evolution of British colonial policy, and the American Revolution. Open to sophomores, juniors, and seniors who have taken 2 units in history, economics, political science, or sociology. *Mrs. Preyer*

222 (2). THE UNITED STATES 1783-1850 (1 unit)

The adoption of the Constitution, and the development of the new nation to the Compromise of 1850. Prerequisite, same as for 221. *Mrs. Preyer*

223 (1). THE UNITED STATES 1850-1900 (1 unit)

The politics and the social, economic, and intellectual roots of sectionalism; the Civil War; reconstruction; the age of big business. Prerequisite, same as for 221. *Mr. Cooper*

224 (1) (2). THE UNITED STATES IN THE TWENTIETH CENTURY (1 unit)

Political, social, and intellectual developments in an industrial society. Foreign affairs considered only in relation to domestic politics. Prerequisite, same as for 202. *Mr. Worthman (1) (2), Mr. Cooper (2)*

225 (1). JAPANESE HISTORY (1 unit)

An introduction to the history of modern Japan with special attention given to the Tokugawa and Meiji periods. Open to sophomores who have taken 1 unit in history or political science, and to juniors and seniors without prerequisite. *Mr. Cohen*

226 (1). PRE-MODERN CHINA (1 unit)

An introduction to the development of Chinese civilization from the earliest time to the period of the modern western impact. Prerequisite, same as for 225. *Mr. Cohen*

227 (2). Modern Chinese History (1 unit)

An introduction to the history of China from 1800 to the present, emphasizing political, economic, and intellectual changes brought about by the impact of the West. Open to freshmen and sophomores who have taken 1 unit in history or political science, and to juniors and seniors without prerequisite. *Mr. Cohen*

228 (1). History of Greece (1 unit)

A survey of history of Greece beginning with Crete and Mycenae. The achievements of the Greek city-states in thought and art studied against the background of political and social developments. Prerequisite, same as for 209. *Mrs. Vermeule* and *Mr. Tracy*

229 (2). History of Rome (1 unit)

The growth of the Roman state into a world empire, with emphasis on the achievement of the Romans and the problems of empire. Prerequisite, same as for 209. *Mrs. Torchia*

300 (2). Problems in Historical Thought (1 unit)

A study of the meaning of history and the variety of approaches used by historians, past and present. Emphasis on conflicting interpretations of selected historical events and developments. Primarily for junior and senior majors who have taken 4 units of history. Not open to students who have taken [201]†. *Mrs. Robinson, Mrs. McLaughlin*

305 (1-2). Diplomatic History of Europe since 1789 (2 units)

Problems of European diplomacy and statecraft from 1789 to the present. Open to sophomores, juniors, and seniors who have taken 2 units of history at the grade II level, or by permission. *Mr. Gulick*

307 (1-2). History of United States Foreign Policy (2 units)

The development of United States foreign policy from the Revolution to the present. First semester, to 1914; second semester 1914 to the present. Prerequisite, same as for 305. By permission either term may be taken independently. *Mr. Cooper*

308 (1-2). American Constitutional Development (2 units)

First semester: English origins of American constitutionalism, the transmission of English legal institutions to the American Colonies, the federal

† Numbers in brackets refer to courses listed only in earlier catalogues.

Constitution, and the development of the role of the Supreme Court to 1837. Second semester: Analysis of constitutional controversies in the context of political and economic change in the 19th and 20th centuries. Prerequisite, same as for 305. (Not given in 1968-69.) *Mrs. Preyer*

310 (1-2). SOCIAL HISTORY OF THE UNITED STATES (2 units)

The impact of conflicting social ideas and actions on the social structure and institutions of the United States. Prerequisite, same as for 305. *Mrs. Preyer, Mr. Worthman*

312 (2). HISTORY OF THE MIDDLE EAST (1 unit)

Social and cultural institutions of the Islamic Empires up to the 19th century; the impact of the West and the rise and development of national movements in the 19th and 20th centuries. Prerequisite, same as for 305. (Not offered in 1968-69.) *Mrs. Berlin*

313 (2). INTELLECTUAL HISTORY OF RUSSIA (1 unit)

Emphasis on the tradition of radical social thought in the 19th and early 20th centuries. Prerequisite, same as for 305. *Mrs. Berlin*

314 (1-2). POLITICAL AND CULTURAL HISTORY OF GERMANY SINCE THE REFORMATION (2 units)

A study of German society and the evolution of the intellectual and artistic life of Germany against the background of political institutions from the Reformation to the present. Prerequisite, same as for 305. (Not offered in 1968-69.) *Mr. Schwarz*

330 (2). SEMINAR. MEDIEVAL HISTORY (1 unit)

Topics in the social and political history of medieval Europe 1200-1500. Open to juniors and seniors by permission. (See Directions for Election.) *Mr. Cox*

331 (1). SEMINAR. ENGLISH HISTORY. (1 unit)

Topic for 1968-69: The early Victorian adjustment to problems of a newly industrialized society. Prerequisite, same as for 330. *Mrs. Robinson*

332 (1). SEMINAR (1 unit)

Topic for 1968-69: The Negro in Africa and America. Same course as Sociology 332. Prerequisite, same as for 330.

Mrs. Shimony and *Mrs. Preyer*

333 (2). SEMINAR. AMERICAN HISTORY (1 unit)

Topic for 1968-69: The New Deal. Prerequisite, same as for 330. *Mr. Cooper*

335 (2). Seminar. French History (1 unit)

Topic for 1968-69: The rise and fall of the French Third Republic. Prerequisite, same as for 330. *Mr. Apt*

336 (1-2). Seminar. American Urban History (2 units)

First semester: beginnings of urban America to 1877. Second semester: problems of the city and the metropolis in late 19th and 20th century United States. Prerequisite, same as for 330. Either term may be taken independently. *Mr. Worthman*

337 (1). Seminar. European Intellectual History (1 unit)

Related topics in the history of Western European thought from Darwin and Marx to the present. Prerequisite, same as for 330. *Mr. Apt*

338 (1). Seminar. Chinese History (1 unit)

Topic for 1968-69: China and the West in the late Ch'ing. Prerequisite, same as for 330. *Mr. Cohen*

339 (2). Seminar. Communist China (1 unit)

An exploration of selected topics for the period of 1949 to the present. Prerequisite, same as for 330. *Mr. Cohen*

345 (2). Senior Major Seminar (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). Research or Individual Study (1 or 2 units)

Open by permission to juniors and seniors.

370 (1-2). Honors Research (2 units)

Required of all honors candidates in the department.

Directions for Election

Courses 100 and 101 are required of all majors unless they have had equivalent preparation. Students who have taken a colloquium in ancient or medieval history may fulfill the 100 requirement by taking 1 unit of advanced work in pre-1600 European history. A colloquium on topics in modern history may substitute for 101 if followed by 1 unit of advanced work in post-1600 European history. Freshmen with extensive background in European history (modern, and ancient or medieval) may elect 203. Major students are urged to distribute their work so that they will have some acquaintance with more than one era or civilization and some knowledge of the development of historical thought. A major may be unspecialized or it may emphasize a period (*e.g.*, ancient, medieval),

an area (*e.g.*, Western Europe, the Far East), a special aspect of history (*e.g.*, diplomatic, intellectual), or a single country (*e.g.*, Russia).

Course 218 counts as related work but not as part of the major.

Seminars are open by permission to qualified juniors and seniors who have taken 4 units in history. In some cases appropriate advanced work in related departments may be substituted for part of the prerequisite in history. Since enrollments in seminars are limited, a student wishing to apply for admission to one or more should fill out an application blank obtainable at the department office.

The senior major seminar (345) will focus on problems in comparative history. There are two other ways of meeting the 345 requirement: the student may undertake a course of independent reading, which will be followed by a synthesizing examination, or she may in the second semester of the senior year elect 300 which will appear as 345 on her record.

ITALIAN

PROFESSOR AVITABLE *(Chairman);* INSTRUCTOR: MR. OLDCORN

All courses are conducted in Italian. In all courses except seminars some work will be required in the laboratory.

Qualified students are permitted to spend the junior year in Italy. See p. 34, The Junior Year Abroad.

100 (1-2). ELEMENTARY ITALIAN (2 units)

Development of basic language skills. Frequent oral and written exercises. Reading of modern short stories and plays. A general view of Italian civilization. Three periods. *The Staff*

202. INTERMEDIATE ITALIAN (1 unit)

Review of basic language structures. Written and oral practice to develop fluency. Conversational topics of contemporary interest, such as "the city," "the family," "periodical literature," "the performing arts." Prerequisite, 100 or its equivalent. (Not offered in 1968-69.)

Miss Avitabile

205 (1). INTRODUCTION TO LITERARY ANALYSIS (1 unit)

Intensive practice in written and oral expression through the critical analysis of selected literary works. Prerequisite, 100, or its equivalent. Three periods. *Miss Avitabile*

206 (1). SIGNIFICANT MOMENTS OF ITALIAN LITERATURE: THE MODERN PERIOD (1 unit)

Important literary movements interpreted through the study and anal-

ysis of selected Romantic, Veristic, and contemporary works. Prerequisite, 202. *Mr. Oldcorn*

207 (2). SIGNIFICANT MOMENTS OF ITALIAN LITERATURE: THE MIDDLE AGES TO THE POST-RENAISSANCE (1 unit)

Important literary movements interpreted through the study and analysis of selected medieval, humanistic, and Renaissance works. Prerequisite, 205, or 206. *Miss Avitabile*

208 (2).* EVOLUTION OF ITALIAN DRAMATIC LITERATURE (1 unit)

A critical and historical analysis of representative plays from the 13th century to the present. Prerequisite, 207, or by permission. (Not offered in 1968-69.) *Mr. Oldcorn*

301 (1-2). DANTE (2 units)

A study of Dante's *Divina Commedia* and minor works. Prerequisite, 207 or 208. *Miss Avitabile*

306 (1). ITALIAN HUMANISM (1 unit)

The development of Renaissance civilization through the thought and literature of Italian humanists in the 14th and 15th centuries. A study of Petrarca's and Boccaccio's major works, and of selected works composed by authors such as Ficino, Alberti, Leonardo da Vinci, Poliziano, Lorenzo il Magnifico. Prerequisite, same as for 301. *Mr. Oldcorn*

307 (2). THE ITALIAN RENAISSANCE (1 unit)

The salient aspects of the Renaissance in relation to the development of Western civilization through the study of representative authors: Ariosto, Machiavelli, Castiglione, Guicciardini, Cellini, Michelangelo, Bandello, Tasso, Bruno. Prerequisite, same as for 301. *Mr. Oldcorn*

308 (2).* FROM VERISMO TO NEO-REALISM (1 unit)

A study of the main literary trends of the last century as seen in the works of representative authors such as Verga, Carducci, Pascoli, Pirandello, Moravia, Vittorini, Berto, Ungaretti. Prerequisite, same as for 301. *Mr. Oldcorn*

309 (2). SEMINAR. ITALIAN ROMANTICISM (1 unit)

Research in some significant phases of Italian Romanticism. Open by permission. *Miss Avitabile*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

* Offered in alternate years.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to students who have completed 2 units in literature in the department.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

Course 100 counts for the degree but does not count for the major.

Majors should plan to take 301, and 306 or 307; it is recommended that they take both 306 and 307.

Courses in one or more other literatures, ancient or modern, in art, history, philosophy, and Extradepartmental 330 are recommended as valuable related work.

Majors planning to do graduate work in Italian are advised to take at least 1 unit in French or Spanish literature and to have a reading knowledge of Latin or of a third Romance language.

LATIN

For courses offered in Latin, see GREEK AND LATIN, pp. 75-78.

MATHEMATICS

PROFESSORS SCHAFER,[a] EVANS; ASSOCIATE PROFESSOR NORVIG *(Acting Chairman);* ASSISTANT PROFESSORS CORNELL, AUSLANDER; INSTRUCTORS: MR. GRAHAM, MR. GOVER, MR. PRITZKER, MRS. HOOVER

All courses except 100, 101, and 345 meet for two periods weekly with a third period every other week.

100 (1) (2). INTRODUCTION TO MATHEMATICAL THOUGHT I (1 unit)

Topics chosen to provide an understanding of creative thinking in mathematics. Material selected from such areas as number theory, algebraic and geometric structures, foundation of the real number system, set theory, and construction of transfinite numbers. Emphasis on concepts rather than techniques. Not open to students who have taken any other college mathematics course. *The Staff*

101 (2). INTRODUCTION TO MATHEMATICAL THOUGHT II (1 unit)

Continuation of 100. Prerequisite, 100. *The Staff*

110 (1) (2). ANALYTIC GEOMETRY, INTRODUCTION TO THE CALCULUS I (1 unit)

[a] Absent on leave.

Study of functions of one variable. Limits and continuity. Differential calculus of algebraic functions with applications. The definite integral. Prerequisite, substantial work in the theory of trigonometric functions. No credit is given for 110 unless it is followed by 111. *The Staff*

111 (1) (2). ANALYTIC GEOMETRY, INTRODUCTION TO CALCULUS II (1 unit)

The Fundamental Theorem of Calculus. The trigonometric, the logarithm and the exponential functions. Techniques of integration. Prerequisite, 110 or a substantial introduction to the calculus. *The Staff*

203 (2). PROBABILITY AND ELEMENTARY STATISTICS (1 unit)

Topics selected from the theory of sets, discrete probability for both single and multivariate random variables, probability density for a single continuous random variable, expectations, mean, standard deviation, and sampling from a normal population. Prerequisite, [109]† or 111 or the equivalent. *Mr. Cornell*

206 (1) (2). LINEAR ALGEBRA (1 unit)

Systems of linear equations, vector spaces over the real and complex fields, linear transformations, matrices, determinants. Prerequisite, [109]† or 111 or the equivalent. *Mr. Pritzker (1), Mr. Graham (2)*

207 (1) (2). INTERMEDIATE CALCULUS I (1 unit)

Extension of the study of differential and integral calculus begun in 111. Infinite series and Taylor's theorem. Prerequisite, [109]† or 111. *The Staff*

208 (2). INTERMEDIATE CALCULUS II (1 unit)

Two and three dimensional vector algebra; three dimensional analytic geometry; partial differentiation; multiple integration. Prerequisite, [200]† or [204 (1)]† or 207. Students entering with Advanced Placement credit may substitute 206 for 207 as a prerequisite. *The Staff*

209 (1). LINEAR PROGRAMMING AND THE THEORY OF GAMES (1 unit)

Convex sets and linear functionals; the fundamental problem of linear programming and the Simplex Method; duality in mathematical programming; the solution of matrix games by linear programming. Prerequisite, [109]† or 111. *Mr. Norvig*

210 (2). DIFFERENTIAL EQUATIONS (1 unit)

An introductory course in ordinary differential equations. Prerequisite, [201]†, [204]†, or 208; or by permission [200]†, [204 (1)]†, or 207. Not open to students who have taken [303]†. *Mr. Cornell*

† Numbers in brackets refer to courses listed only in earlier catalogues.

301 (1).* MATHEMATICAL STATISTICS (1 unit)

Topics include continuous multivariate densities, moment generating functions, sampling theory, estimation, confidence intervals, tests of statistical hypothesis and regression. Prerequisite, 203, and [201]†, [204]†, or 208. *Mr. Cornell*

302 (1-2). ELEMENTS OF ANALYSIS (2 units)

Point set theory; study of convergence, continuity, differentiation and integration in finite dimensional Cartesian spaces. Prerequisite, 206, and [201]†, [204]†, or 208. The first term may be taken independently. *Mr. Norvig*

305 (1-2). MODERN ALGEBRAIC THEORY (2 units)

Introduction to algebraic systems including groups, rings, integral domains, fields, abstract vector spaces. Prerequisite, same as for 302. The first term may be taken independently. *Mrs. Auslander*

308 (2). TOPICS IN GEOMETRY (1 unit)

Topic for 1968-69: Introduction to algebraic geometry. The basic concepts of algebraic geometry with emphasis on curves in the Euclidean and projective planes over the complex numbers. Parametrization. Intersections. Divisors. Prerequisite, 305 (1). *Mr. Graham*

310 (2). FUNCTIONS OF A COMPLEX VARIABLE (1 unit)

Elementary functions and their mapping properties; integration theory; series expansions of analytic functions. Prerequisite, 302 (1). *Miss Evans*

312 (1). SELECTED TOPICS (1 unit)

Topic for 1968-69: Topology. An introduction to point set and algebraic topology including compact spaces, simplicial and singular homology, the Brouwer fixed point theorem, Euler characteristics, and the cohomology ring. Prerequisite or corequisite, 305 (1). *Mr. Gover*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open to juniors and seniors by permission.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

* Offered in alternate years.
† Numbers in brackets refer to courses listed only in earlier catalogues.

Directions for Election

A major in mathematics must include 206, the first unit of 302 and of 305, and the second unit of 302 or 310. Two units of grade III must be taken in the senior year.

In 1968-69 the senior major seminar (345) will have as its topic, Foundations of Mathematics (axiomatic set theory, cardinal and ordinal numbers, axiom of choice, elementary model theory). A student may also fulfill the 345 requirement by taking any Grade III course in the second semester of the senior year, and by substituting for a portion of the required work of that course a paper on a topic in mathematics which draws on the material of that course and on other courses.

Courses 100, 101 are intended primarily as terminal courses. They may not be counted in the major. 110 and 111 are intended for students with a serious interest in science and mathematics. Students planning to elect both units of 302 or of 305 should take both in the same year.

Students expecting to do graduate work in mathematics should elect the second unit of 302 and of 305, 308, 310, and 312. They are also advised to acquire a reading knowledge of one or more of the following languages: French, German, Russian.

Students who expect to teach at the high school level are advised to elect the second unit of 302, and 308 and 310.

MUSIC

Professor Lamb; Associate Professor Herrmann; Assistant Professors Jander, Crawford,[a] Barry *(Chairman);* Instructor: Miss Reichard

Instructors in Performing Music: Mr. Zighera (Cello), Mr. Goetze (Piano), Mr. Taylor (Organ), Mrs. Pappoutsakis (Harp), Mr. Speyer (Oboe and English Horn), Mr. Shapiro (Horn), Mr. Wrzesien (Clarinet), Miss Preble (Flute), Mrs. Vivian (Organ), Mrs. O'Donnell (Voice), Mr. Pinto (Violin), Mrs. Feldman (Viola de gamba), Mr. Hedberg (Viola), Miss Moss (Piano), Miss Odiaga (Harpsichord), Mrs. Flavin (Acting Director of Chamber Music), Mrs. Plaster (Assistant in Chamber Music)

101 (1-2). Introductory Course (2 units)

The fundamentals of musicianship. Development of reading and listening skills. Introduction to traditional harmony. Open to all undergraduates. Three periods: one lecture and two section meetings.

Miss Barry, Mr. Lamb

[a] Absent on leave.

103 (1-2). INTRODUCTION TO THE LITERATURE OF MUSIC (2 units)

An historical survey course designed to develop the student's musical understanding, insight, and powers of observation through the study of music of various styles and periods. No previous knowledge of music required. Open to sophomores, juniors, and seniors who have taken no other course in the department. Not to be counted toward a major. Two periods of lecture and one section meeting. *Mr. Herrmann, Miss Reichard*

200 (1-2). SURVEY OF DESIGN IN MUSIC (2 units)

A survey of materials and methods of composition from the earliest times to the present. Prerequisite, 101. Three periods. *Mr. Jander*

204 (1). COUNTERPOINT I (1 unit)

Two-part writing. Analysis. Prerequisite, 101. (Not offered in 1968-69). *Mr. Crawford*

205 (1). COUNTERPOINT II (1 unit)

Three-part writing. Analysis. Prerequisite, 204. *Mr. Lamb*

209 (1). THE CLASSICAL PERIOD (1 unit)

Studies in the music of Haydn, Mozart, and Beethoven. Prerequisite, 101 or 103. Not to be counted toward a major. *Mr. Jander*

210 (2).° THE ROMANTIC PERIOD (1 unit)

Analysis of representative compositions of the 19th century. Prerequisite, 103, 200, or 209. Not to be counted toward a major. *Miss Reichard*

214 (2).° THE TWENTIETH CENTURY (1 unit)

An introduction to contemporary music. Prerequisite, same as for 210. Not to be counted toward a major. (Not offered in 1968-69.) *Mr. Jander*

303 (1). THE MIDDLE AGES AND THE RENAISSANCE (1 unit)

Subject for 1968-69: Music of Elizabethan and Jacobean England. Prerequisite, 200. *Mr. Jander*

307 (2). THE OPERA (1 unit)

A study of operatic forms, styles, and traditions from the time of Monteverdi to the present. Open to juniors and seniors who have taken 2 units of grade II in the literature of music. *Mr. Jander*

312 (1-2). HARMONY (2 units)

The figured bass. Harmonization of melodies. Analysis. Prerequisite, 205 or, by permission, 204. Three periods. *Mr. Lamb*

° Offered in alternate years.

316 (1-2). Introduction to Composition (2 units)

Advanced studies in theory. The principles of instrumentation. Composition for small ensembles. Prerequisite, 312 and 320. (Not offered in 1968-69.) *Mr. Crawford*

320 (2). Seminar. Studies in Music since 1900 (1 unit)

Subject for 1968-69: Selected works of Igor Stravinsky. Prerequisite, 200. *Mr. Lamb*

321 (1). Seminar. The Age of Bach and Handel (1 unit)

Subject for 1968-69: Studies in the oratorio of Handel. Open to students who have taken 200 and who have taken or are taking 312. *Mr. Lamb*

322 (2). Seminar. Classicism and Transition (1 unit)

Subject for 1968-69: The choral music of Haydn. Prerequisite, same as for 321. *Mr. Herrmann*

344 (1) (2). Performing Music (1 or 2 units)

Intensive study of interpretation and of advanced technical performance problems in the literature. Open by permission of the department to qualified juniors and seniors who have taken or are taking 200. (See Directions for Election.) One hour lesson per week. *The Staff*

345 (2). Senior Major Seminar (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). Research or Individual Study (1 or 2 units)

Directed study in theory, orchestration, composition, or the history of music. Open to seniors by permission.

Performing Music (Instrumental and Vocal Lessons)**

Instruction is provided in voice, piano, organ, harpsichord, harp, violin, viola, cello, viola da gamba***, flute, oboe, clarinet, and French horn.

** Students, except those in 344, who elect performing music instruction are charged at the rate of $168 for a half-hour private lesson per week throughout the year. An additional fee of $20 per year is required of all performing music students for the use of a practice studio for one period daily. The fee for daily harpsichord or organ practice is $30. Performing music fees are payable in advance and are not subject to return or reduction except upon recommendation of both the Dean of Students and the Chairman of the Department of Music.

*** Group instruction is offered in the first semester for the beginning viola da gamba student only. The rate for the semester is $56 for a one-hour lesson per week. Private instruction in gamba may be taken in the second semester at the rate of $84 for the semester for a half-hour lesson per week. The performing music rate of $168 stated above is applicable to private instruction in gamba throughout the year.

The department strongly recommends the study of performing music as a complement to the course work.

Students may take performing music provided they take or have already taken a college course in the theory of music. Performing music is an elective, and students wishing to take it should notify the department in accordance with the procedure required for the election of an academic course. Performing music may be taken for academic credit, but only by students enrolled in 344. (See course description and Directions for Election.)

Instruction in performing music is available to graduates of Wellesley College and to residents of the Town of Wellesley by special arrangement.

Performing music study is normally undertaken on a yearly basis, although with the permission of the chairman of the department it may be elected for a single semester only. Students whose work proves unsatisfactory may be required to discontinue their lessons.

The College subscribes for eight seats in the Saturday evening series of the Boston Symphony Orchestra. Tickets for these concerts are available at cost and students taking music courses are given preference in the use of them.

DIRECTIONS FOR ELECTION

One to four units of 344 may be counted towards the degree provided at least two units of grade III work in the literature of music are completed. Music 344 should ordinarily follow or be concurrent with such courses in the literature of music; not more than one unit may be elected in advance of election of grade III work in the literature. Only one unit of 344 may be elected per term.

Permission to elect a unit of 344 is granted only after a student has successfully auditioned for the department faculty upon the recommendation of her instructor in performing music, such audition to take place early in the second semester of the student's sophomore or junior year. Permission to elect subsequent units is granted only to a student whose progress in 344 is judged excellent.

Students wishing to major in music should consult with the chairman of the department, who will advise them in planning their work both in the major and in such related fields as European history, literature, and art. Those who propose after graduation to continue into musicology should note that a reading knowledge of both French and German is essential for work in that field, and that in addition a certain proficiency in Italian and in Latin is highly desirable.

PHILOSOPHY

PROFESSORS ONDERDONK,[a] HARING; ASSOCIATE PROFESSOR STADLER *(Chairman)*; ASSISTANT PROFESSORS PUTNAM,[a] CONGLETON, JONES; INSTRUCTORS: MR. HARDWIG, MR. GOTTLIEB

101 (1) (2). PLATO (1 unit)

A study of Plato's dialogues, including the *Republic;* emphasis on ethics and metaphysics. Some comparison with at least one later thinker, *e.g.*, Aristotle, Hume, Dewey, Sartre. Open to all undergraduates. *The Staff*

103 (1) (2). PHILOSOPHICAL ANALYSIS (1 unit)

An introduction to recent conceptions of philosophical inquiry through a study of theories concerning such topics as the nature of inference and the role of thought in human action. Comparison of contemporary analytical procedures with traditional approaches. Open to all undergraduates. *The Staff*

107 (1). STUDIES IN THE DEVEOPMENT OF MODERN PHILOSOPHY I (1 unit)

For description see 207. Open to freshmen and to sophomores who have taken no other course in philosophy. *Miss Congleton*

201 (1). ARISTOTLE (1 unit)

A study of Aristotle's treatises, their historical roots in Plato and the Pre-Socratics, their relevance to modern thought. Prerequisite, 101, or permission of the instructor. *Mrs. Haring*

203 (1) (2). PHILOSOPHY OF ART (1 unit)

An examination of some major theories of art and art criticism. Emphasis on the clarification of such key concepts as style, meaning, and truth, and on the nature of judgments and arguments about artistic beauty and excellence. Open to freshmen and sophomores who have taken one course in philosophy, and to juniors and seniors without prerequisite. *Mrs. Stadler (1), Mrs. Haring (2)*

204 (1). PHILOSOPHY OF LANGUAGE (1 unit)

An investigation of some philosophical questions about language, such as the relation between language and thought and the nature of meaning. Open to sophomores who have taken one course in philosophy, and to juniors and seniors without prerequisite. *Miss Congleton*

[a] Absent on leave.

206 (2). MORAL PHILOSOPHY (1 unit)

A systematic investigation of moral reasoning and moral judgments. Readings from traditional and contemporary sources. Prerequisite, same as for 203. *Mr. Jones*

207 (1). STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY I (1 unit)

Examination of the philosophies of Descartes, Spinoza, and Locke, designed to give the student a knowledge of the chief 17th century philosophical systems and to provide some background for the understanding of related movements in literature and in the natural and social sciences. Prerequisite, same as for 204. *The Staff*

208 (2). STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY II (1 unit)

Examination of the philosophies of Hume, Kant, and Hegel, designed to give the student an acquaintance with British Empiricism and the rise of German Idealism and to provide background for the study of related movements in other fields. Prerequisite, 107 or 207, or by permission. *The Staff*

209 (1). NINETEENTH CENTURY PHILOSOPHY (1 unit)

A study of major themes in 19th century philosophy with emphasis on Hegel and the reaction to Hegelianism as seen, *e.g.*, in the works of Kierkegaard and Nietzsche. Prerequisite, 208, or permission of the instructor. (Not offered in 1968-69.) *Mrs. Stadler*

211 (2). PHILOSOPHY OF RELIGION (1 unit)

An examination of basic problems regarding the nature of religion, the grounds of religious belief, and the character of ritual, with attention to both traditional and contemporary positions. Prerequisite, same as for 204. *Miss Congleton*

216 (1). LOGIC (1 unit)

An introduction to the methods of symbolic logic and their application to arguments in ordinary English. Discussion of validity, implication, consistency, proof, and of such topics as the thesis of extensionality and the nature of mathematical truth. Open to sophomores who have taken one course in philosophy or mathematics, and to juniors and seniors without prerequisite. *Mr. Gottlieb*

217 (2).* PHILOSOPHY OF SCIENCE (1 unit)

An examination of the fundamental relations between science and philosophy, showing how some basic philosophical issues have their

* Offered in alternate years.

origins and justification in theories about the natural world. Examples from the social and physical sciences. Prerequisite, same as for 203. (Not offered in 1968-69.)

218 (1-2). HISTORY OF SCIENCE (2 units)

For description and prerequisite, see Extradepartmental 218.

306 (2).° ADVANCED LOGIC (1 unit)

Discussion of the characteristics of deductive systems, *e.g.*, consistency and completeness; development of a system of axiomatic abstract set theory; investigation of philosophical problems such as those presented by Gödel's theorem and by the axiom of choice. Prerequisite, 216.

Mr. Gottlieb

311 (1). KANT (1 unit)

Intensive studies in the philosophy of Kant with some consideration of his position in the history of philosophy. Prerequisite, 207 and 208, or permission of the instructor. *Mrs. Stadler*

312(2).° CONTEMPORARY PHILOSOPHY: PHENOMENOLOGY AND EXISTENTIALISM (1 unit)

A study of central themes in contemporary European philosophy. Prerequisite, 3 units in philosophy including 207 and 208, or 208 and 209, or permission of the instructor. *Mrs. Stadler*

313 (2).° CONTEMPORARY PHILOSOPHY (1 unit)

Intensive study of one major philosophical position through a detailed examination of one person or school, such as Pragmatism, Positivism, the philosophy of Whitehead. Topic for 1969-70 to be announced. Prerequisite, 3 units in philosophy including 207 and 208, or permission of the instructor. (Not offered in 1968-69.)

324 (1). SEMINAR (1 unit)

Intensive study of selected problems of current philosophical concern. Topic for 1968-69 will be in ethics. Prerequisite, same as for 313.

Mr. Jones

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open to juniors and seniors by permission.

° Offered in alternate years.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

Course 218 may, with the permission of the adviser, count as part of the major. It may not be elected to fulfill a Group B distribution requirement.

For members of the Class of 1969, a major in philosophy normally includes 101, 201, 207, 208, either 103 or 216, 311 and 345. For succeeding classes a major normally includes a course in ancient philosophy, 107 or 207, 208, either 103 or 216, 345, and one other grade III course in the department. Students planning to do graduate work are advised to take 216 and 311.

A knowledge of Greek, French, or German is desirable for all majors. Students planning graduate work in philosophy are urged to acquire a reading knowledge of two of these languages, or one of them and Russian; a student should consult her adviser as to which pair is likely to be most suitable.

PHYSICAL EDUCATION

ASSOCIATE PROFESSOR SPEARS *(Director)*; ASSISTANT PROFESSORS COCHRAN, VAUGHN; INSTRUCTORS: MISS CARSON, MISS DANIELSON, MRS. SCHAADT, MRS. STALEY, MISS ALVAREZ, MRS. MILNE, MISS NUNNALLY

Courses are conducted according to skill levels which are indicated as follows: E—elementary, I—intermediate, and A—advanced.

In the lists of activities superior figures indicate special requirements:

[1] Swimming ability required (valid Senior Life Saving Certificate, valid Water Safety Instructor's Certificate, or swimming test).

[2] Students who elect horseback riding are charged a fee of approximately $42.00.

[3] Students who elect these courses must meet American Red Cross prerequisites. Certificates are issued on completion of course.

[4] Individually planned program for students unusually well qualified in physical education activities. For further details consult the department chairman.

Physical Education Activities

Semester I (12 weeks)—Senior Life Saving[3], Water Safety Instructors[3].

Semester I-A (6 weeks)—Aquatic figure control, archery (E-I), basic dance forms, canoeing[1] (E-I-A), crew[1] (E-I), diving (E), field hockey (I-A), figure control, folk and square dance, golf (E-I-A), horseback riding[2]

(E-I-A), independent physical education[4], modern dance (E-I-A), survey of aquatics[1], swimming (E-I-A), synchronized swimming (E—technique & composition), tennis (E-I-A), volleyball.

Semester I-B (6 weeks)—Aquatic figure control, badminton (E-I-A), basic dance forms, basketball, diving (E-I), fencing (E), figure control, fundamentals of movement, gymnastics (E), horseback riding[2] (E-I-A), independent physical education[4], modern dance (E-I-A—introduction to compositional styles—modern dance as related to theatre), squash (E-I), swimming (E-I-A)-synchronized swimming (E—technique and composition), volleyball.

Semester II (12 weeks)—Recreation leadership, Senior Life Saving[3], Water Safety Instructor's[3], modern dance (I-A).

Semester II-A (7 weeks)—Aquatic figure control, badminton (E-I-A), basic dance forms, basketball (E-I-A), diving (E-I), fencing (E-I), figure control, folk and square dance, fundamentals of movement, gymnastics (I-A), independent physical education[4], modern dance (E)-motor learning lab., skiing and ski conditioning (E-I-A), squash (E-I), swimming (E-I-A), synchronized swimming (I—technique and composition), volleyball.

Semester II-B (5 weeks)—Aquatic figure control, archery (E-I), basic dance forms, canoeing[1] (E-I-A), crew[1] (E-I), diving (E-I), figure control, golf (E-I-A), horseback riding[2] (E-I-A), independent physical education[4], lacrosse, modern dance (E—choreography—modern dance as related to theatre), swimming (E-I-A), synchronized swimming (E—technique & composition), tennis (E-I-A—techniques of teaching), volleyball (E-I-A), Water Safety Instructor refresher[3].

121 (1-2). Physical Education Activities

Fundamentals of Movement: a study of body alignment, human motion, fitness, conscious relaxation, and related principles (Semester I-B or Semester II-A); choice of activities in other semesters or seasons. Required of freshmen. Two periods a week. *The Staff*

122 (1-2). Physical Education Activities

Choice of seasonal or term activities. Required of sophomores. Two periods a week. *The Staff*

131 and 132 (1-2). Modified Physical Education Activities

Required of freshmen (131) and sophomores (132) whose medical or orthopedic condition indicates the need for modified activities and individually planned programs. Upon recommendation of the College Physician and permission of the instructors. May be substituted for 121 or 122. *Miss Carson, Miss Spears*

DIRECTIONS FOR ELECTION

The instructional program is divided into four seasons, two each in Semester I and Semester II. While most activities are offered on a seasonal basis, some are offered for a semester. To fulfill the requirement in physical education a student must complete the Fundamentals of Movement course and seven seasons of activity. Unless exempted, freshmen are required to elect the Fundamentals of Movement course in Semester I-B or Semester II-A. An opportunity for exemption examination is given in the first season. If an exemption is granted, the student will fulfill her physical education requirement by electing four seasons in the freshman year and three in the sophomore year.

A student's choice of an activity is subject to the approval of the department and the College Health Service.

Special sections in physical education are arranged for upperclassmen in the following activities and in the appropriate season: Badminton, fencing, figure control, golf, modern dance, skiing, squash, and tennis. A student who wishes to elect an upperclass section in physical education should consult the department Registrar.

With the permission of the department, students and faculty may elect any of the activities offered.

PHYSICS

PROFESSORS GUERNSEY *(Chairman)*, FLEMING; ASSISTANT PROFESSORS BROWN, ZIMMERMANN; INSTRUCTOR: MR. TINKER; LECTURER: MRS. RICE

Unless otherwise noted all courses meet for two periods of lecture and discussion weekly. All grade I and grade II courses have one three-hour laboratory appointment weekly.

100 (1). BASIC CONCEPTS IN PHYSICS (1 unit)

Forces, fields, conservation laws, waves, structure of matter. Open to students who are not eligible for 103 or 105. Two periods weekly with a third period every other week. *Mrs. Guernsey*

103 (1). FUNDAMENTAL PHYSICS (1 unit)

Same topics as 100. Open to students who offer physics for admission, and who are not eligible for 105. Two periods weekly, with a third period every other week. *Mr. Zimmermann*

104 (2). ELEMENTARY PHYSICS (1 unit)

Introduction to electric circuits, geometric optics, and wave phenomena. Open to students who are not eligible for 106. Two periods weekly with a third period every other week. Prerequisite, 100 or 103.

Miss Brown

105 (1). MECHANICS (1 unit)

Elementary mechanics with emphasis on rotational motion; wave motion; introduction to atomic structure. Open to students who offer physics for admission and who have taken or are taking Mathematics [109]† or 110. Two periods weekly with a third period every other week.

Mrs. Rice

106 (2). INTERMEDIATE PHYSICS (1 unit)

Further development of selected topics in physics. Emphasis on wave phenomena, light, and modern physics. Open to students who have taken 100 or 103 and who have taken or are taking Mathematics [109]† or its equivalent. Two periods weekly, with a third period every other week.

Mrs. Rice

200 (2). MODERN PHYSICS (1 unit)

Basic principles of relativity and quantum theory, and of atomic and nuclear structure. Prerequisite, [102]†, 104, 105, or 106. Prerequisite or corequisite, Mathematics [109]† or 111. *Mrs. Guernsey*

201 (2). ELECTRICITY (1 unit)

Fundamental laws of electric and magnetic fields; electric circuits; electric and magnetic properties of matter. Prerequisite, [102]†, 104, 105, or 106, and Mathematics [109]† or 111. *Mrs. Guernsey*

202 (1). OPTICS (1 unit)

Wave theory as applied to optical phenomena. Interference, diffraction, birefringence, polarization, dispersion. Theory and use of optical instruments. Prerequisite, same as for 201. *Miss Brown*

206 (2).* ELECTRONICS (1 unit)

Fundamental principles of electron tubes and transistors; application to power supplies, amplifiers, oscillators, modulators. Introduction to nonlinear electronic circuits. Prerequisite, 201. (Not offered in 1968-69.)

Mrs. Guernsey

216 (1). APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES I. (1 unit)

For description and prerequisite, see Extradepartmental 216.

217 (2). APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES II. (1 unit)

For description and prerequisite, see Extradepartmental 217.

† Numbers in brackets refer to courses listed only in earlier catalogues.
* Offered in alternate years.

301 (2). QUANTUM MECHANICS (1 unit)

Interpretative postulates of quantum mechanics; solutions to the Schroedinger equation; operator theory; perturbation theory; scattering; matrices. Prerequisite, 217, or Mathematics [201]† or [204]† or 208, and in addition one term of grade II physics or permission of the instructor. Physics 306 is recommended. *Miss Brown*

303 (1).° NUCLEAR PHYSICS (1 unit)

Static properties of atomic nuclei. Properties of charged particles, neutrons, and gamma rays; their interactions with matter. Natural and artificial radioactivity. Nuclear reactions. Prerequisite, 301. (Not given in 1968-69.) *Mrs. Guernsey*

304 (2). ELECTROMAGNETIC THEORY (1 unit)

Maxwell's equations; electromagnetic waves and radiation; physical optics. Prerequisite, 201 and 306. *Mr. Zimmermann*

305 (1).° THERMODYNAMICS (1 unit)

The laws of thermodynamics; kinetic theory of gases; statistical mechanics. Prerequisite [102]†, 104, 105, or 106, and 217 or Mathematics [201]† or [204]† or 208. *Mr. Tinker*

306 (1). ADVANCED MECHANICS (1 unit)

A vector analytical presentation of Newtonian mechanics; introduction to Lagrangian and Hamiltonian mechanics. Prerequisite, same as for 305. *Miss Brown*

309 (2). ADVANCED EXPERIMENTAL PHYSICS (1 unit)

Fundamental experiments selected from different areas of physics. Open by permission of the instructor. Two laboratory appointments per week. (Not given in 1968-69.) *Mrs. Guernsey*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to juniors and seniors.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

A major in physics should ordinarily include 201, 202, 301, 304, and

† Numbers in brackets refer to courses listed only in earlier catalogues.
° Offered in alternate years.

306. Course 217 or Mathematics [201]† or [204]† or 208 and 2 units of another laboratory science are required for a major in physics.

A reading knowledge of two of the following languages is desirable: French, German, Russian.

Premedical students are referred to the requirements given on p. 36.

Placement and Exemption Examinations

The Physics Department offers an exemption examination to allow students to enter any grade I course in the physical sciences for which a grade I physics course is a prerequisite.

An examination for exemption from Physics 105 is offered to qualified students who present one admission unit in physics. Students who pass this examination and who present an acceptable laboratory notebook will be eligible for grade II work in physics.

POLITICAL SCIENCE

Professors Stratton, Evans *(Chairman)*; Associate Professor Phibbs; Assistant Professors Schechter, Stettner, Nawawi, Rosenbaum; Instructors: Mr. Spielmann, Mr. Lamb, Claire H. Siegelbaum

101 (1) (2). Introduction to Political Analysis (1 unit)

Questions basic to political analysis including: What political beliefs are held by participants in a political system? What is the nature of the system's policy-making processes? How do political leaders achieve power? What factors contribute to political stability and change? Course intended to help students interpret contemporary political developments and to provide analytical tools for advanced work. Illustrations drawn from various political systems, including Great Britain, the Soviet Union, and the United States. Open to all undergraduates. *The Staff*

150 (1) (2). Colloquium (1 unit)

For description of topics and directions for applying see p. 128. Open by permission to a limited number of freshmen and sophomore applicants.

200 (1) (2). Comparative Politics of the Developing Areas (1 unit)

Study of selected aspects of African, Asian, and Latin American political systems, with emphasis upon use and evaluation of analytical concepts in recent literature; political change, national integration, and legitimization among problems considered. Prerequisite, grade I course in political science or 2 units in economics, history, psychology, or sociology. *Mr. Rosenbaum (1) (2), Mr. Nawawi (1)*

† Numbers in brackets refer to courses listed only in earlier catalogues.

202 (1).* CLASSICAL AND MEDIEVAL POLITICAL THOUGHT (1 unit)

Study of political theories and doctrines of selected classical, medieval, and early modern writers, such as Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Luther, Calvin, and Hooker. Writings are considered in their historical context and for their relevance to modern political analysis. Prerequisite, grade I course in political science or 2 units in economics, history, philosophy, psychology, or sociology. (Not offered in 1968-69.) *Mr. Stettner*

203 (2). MODERN AND CONTEMPORARY POLITICAL THOUGHT (1 unit)

Study of political theories and doctrines from the 17th century to the present. Among the theorists studied are Hobbes, Locke, Hume, Rousseau, Burke, Mill, Hegel, Marx, and representatives of contemporary schools and ideologies. Writings are considered in their historical context and for their relevance to political analysis. Prerequisite, same as for 202 (not open to students who have taken Political Science [335]†).

Mr. Stettner

205 (1). COMPARATIVE GOVERNMENT: WESTERN EUROPE (1 unit)

Analysis of European political regimes including West Germany, Italy, France, and the United Kingdom with reference to constitutional traditions, party systems, interest groups, parliaments, political executives, and bureaucracies. Examination of key problems facing representative government. Prerequisite, same as for 200. *Mr. Stettner*

210 (1) (2). AMERICAN PARTIES AND INTEREST GROUPS (1 unit)

Analysis of the role of extragovernmental political organizations in the American political process. Organization, operation, and evaluation of political parties and interest groups; recruitment of leaders, elections and behavior of the electorate, influences on public policy formation. Prerequisite, same as for 200. *Mr. Schechter (1); Mr. Stratton (2)*

211 (2). THE PRESIDENTIAL SYSTEM IN THE UNITED STATES (1 unit)

Study of the President and other members of the presidency, political and career executives in the bureaucracy, and members of Congress and their staffs; formal and informal organization; emphasis upon relationships across organizational lines and influences upon behavior. Prerequisite, same as for 200. *Mr. Stratton*

220 (1-2). INTERNATIONAL POLITICS (2 units)

Study of contemporary world politics with special attention to international security and efforts to achieve cooperation; the United Nations

* Offered in alternate years.

† Numbers in brackets refer to courses listed only in earlier catalogues.

and regional arrangements; tension areas and current disputes; foreign policies of major powers. Prerequisite, same as for 200. Not open to students who have taken or are taking 221. Recommended for students planning further work in the international field in political science.

221 (1) (2). PROBLEMS OF INTERNATIONAL POLITICS (1 unit)

Study of the international community and the forces which influence the conduct of its members; the nature and pursuit of foreign policy, international organization, and the attempts to achieve security in a divided world. Prerequisite, same as for 200. Not open to students who have taken or are taking 220. Not recommended for students planning further work in the international field in political science. *Mr. Spielmann*

302 (1).* AMERICAN POLITICAL THOUGHT (1 unit)

An examination of political theories and doctrines which have been developed in the United States, with a view toward determining their adequacy as description of and prescription for American politics. Special emphasis given to the period of the framing of the Constitution, the Progressive Era, and to contemporary political beliefs and problems. Open to juniors and seniors who have taken a grade II course in political science, history, philosophy, or sociology; by permission to other qualified juniors and seniors. *Mr. Stettner*

303 (2). SYSTEMATIC POLITICAL THEORY (1 unit)

Exploration of key concepts of political theory, including power, authority, justice, freedom, democracy, equality, and obligation. Readings from both traditional and contemporary sources. Open to juniors and seniors who have taken a grade II course in political science, history, or philosophy. Not open to students who have taken [235].† *Mr. Stettner*

306 (2). COMPARATIVE GOVERNMENT: SOUTH AND EAST ASIA (1 unit)

The political process in India, Japan, and China; accommodation of political traditions to modern ideas in the development and functioning of political systems; political institutions; leadership and shifting foci of power; problems in domestic and foreign policy-making. Open to students who have taken 200 or History 225 and 227; by permission to other qualified students. (Not offered in 1968-69.) *Miss Evans*

307 (1). COMPARATIVE GOVERNMENT: LATIN AMERICA (1 unit)

Study of politics and government in selected Latin American states including Argentina, Brazil, Chile, and Mexico, treating dynamics of

* Offered in alternate years.

† Numbers in brackets refer to courses listed only in earlier catalogues.

power, constitutionalism, crisis government, factors underlying policy formation. Open to students who have taken 200, and to juniors and seniors who have taken a grade II course in political science or History 214; by permission to qualified students majoring in Spanish.

Mr. Rosenbaum

308 (1) (2). COMPARATIVE GOVERNMENT: THE SOVIET UNION AND EASTERN EUROPE (1 unit)

Study of politics and government in the Soviet Union and East European satellites: the interrelationship of ideology and power, leadership, political institutions, policy formation. Open to juniors and seniors who have taken a grade II course in political science or History 209 or 313; by permission to juniors and seniors emphasizing Russian language and history. *Mr. Spielmann*

310 (1). POLICY-MAKING IN THE FEDERAL GOVERNMENT (1 unit)

Analysis of the policy-making process based on simulation of decision-making in executive, legislative, judicial, and/or administrative units, primarily in the Federal Government. Four or five nationally important questions considered, with all class members playing roles as advocates, witnesses, decision-makers, or analysts; evaluation of role-playing and extent to which relevant considerations are taken into account in reaching decisions. Open to students who have taken 210 and 211; by permission to qualified juniors and seniors who have had only one of these courses. *Mr. Stratton, Mr. Schechter*

321 (2). FOREIGN POLICY ANALYSIS (1 unit)

Study of American foreign policy within a comparative analytical framework examining the interplay of domestic and external sources. Considerable attention to different types of data, approaches, and methods in analyzing the formulation and substance of foreign policy. Open to juniors and seniors who have taken 220; by permission to qualified juniors and seniors who have taken 221. *Mr. Nawawi*

325 (1). THEORIES OF INTERNATIONAL RELATIONS (1 unit)

Consideration of comprehensive theoretical explanations of the nature of relations among states, contemporary proposals for integrating the international community, and methods of analyzing political behavior at the international level. Open by permission to juniors and seniors who have taken 220, and to qualified juniors and seniors who have taken 221.

Mr. Spielmann

330 (1). LAW AND THE ADMINISTRATION OF JUSTICE (1 unit)

An introduction to the nature and functions of law; the adversary system; methods of legal development based upon an analysis of selected

problems in contract, tort, and criminal law; comparison of common law and civil law systems; relation of law and politics. Open to students who have taken a grade II course in political science, economics, history, philosophy, psychology, or sociology; by permission to sophomores. Recommended for students who are planning to take 331 or 332. *Miss Evans*

331 (2). INTERNATIONAL LAW (1 unit)

Study of the function of law in the international political system. Intensive study of several important international problems, such as protection of human rights, accommodation of new states to international law, maritime and aerospace jurisdiction, limits of state sovereignty, arms control, peaceful settlement of disputes, methods of compliance with international law. Selected current legal issues treated in moot court practice. Open to juniors and seniors who have taken 220, 221, or 330, or History 305 or 307; by permission to other qualified students. *Miss Evans*

332 (2). AMERICAN CONSTITUTIONAL LAW (1 unit)

Analysis of major developments in constitutional interpretation, the conflict over judicial activism, and current problems facing the Supreme Court; judicial review, the powers of the President and of Congress, Federal-State relations, individual rights and liberties. Selected current legal issues treated in moot court practice. Open to juniors and seniors who have taken 210, or 211; by permission to juniors and seniors who have taken other courses in political science and/or American history.

Mr. Schechter

336 (1). SEMINAR (1 unit)

Advanced intensive study of one problem or a series of related problems. Topic for 1968-69: Poverty and the law. Open by permission to juniors and seniors who have taken 4 units in political science.

Miss Evans

337 (1). SEMINAR (1 unit)

Advanced intensive study of one problem or a series of related problems. Topic for 1968-69: Education and politics in developing areas. Prerequisite, same as for 336. *Mr. Nawawi*

338 (2). SEMINAR (1 unit)

Advanced intensive study of one problem or a series of related problems. Topic for 1968-69: Civil rights today. Prerequisite, same as for 336.

Mr. Schechter

339 (2). SEMINAR (1 unit)

Advanced intensive study of one problem or a series of related problems. Topic for 1968-69: United States policy toward Latin America. Prerequisite, same as for 336. *Mr. Rosenbaum*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to juniors and seniors.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

A major in political science includes one course at the grade I level and a course above the grade I level in at least three of the following fields: American government and politics, comparative government and politics, international politics, political theory, and public law. A major may be broad in scope, or it may have a special focus, *e.g.*, metropolitan regional problems, Asian, European, or Latin American area studies, international relations, or political ethics, based upon selected courses and independent research. A student interested in urban problems should note Sociology 220, Urban Society.

Graduate work in political science leading to the Ph.D. usually requires a reading knowledge of two foreign languages and, for many specialties, a knowledge of statistical techniques or an introduction to the calculus.

A student participating in the Wellesley Washington Summer Internship Program may arrange with the Director to earn credit for independent study. (See p. 30.)

PSYCHOLOGY

PROFESSORS ALPER,[a] ZIMMERMAN *(Chairman);* ASSISTANT PROFESSORS PERLITSH, SAMPSON; INSTRUCTORS: MRS. FURUMOTO, MR. CROMER, MR. LESTER, MRS. CLINCHY, MR. SUNG, MRS. GOLOMB, MRS. SCHNITZER, MRS. VOGEL; LECTURER: MRS. STIVER

101 (1) (2). INTRODUCTION TO PSYCHOLOGY (1 unit)

Study of selected research problems from areas such as personality development, learning, and cognition to demonstrate ways in which psychologists study behavior. Open to all undergraduates. *The Staff*

200 (1) (2). RESEARCH METHODS (1 unit)

Practice with some major methods used in the study of behavior: observations under non-laboratory conditions, intelligence and personality testing, laboratory experiments. Individual and group projects. Prerequisite, 101. Laboratory. *The Staff*

[a] Absent on leave.

201 (2). PSYCHOLOGICAL STATISTICS (1 unit)

Training in the use of statistical techniques as they have been adapted to the handling and evaluating of representative types of psychological data. Emphasis on developing an understanding of the possibilities and limitations of the use of statistics in psychology. Prerequisite, 101.

Mr. Sung

207 (1) (2). CHILD PSYCHOLOGY (1 unit)

Selected theories, methods, and research in developmental psychology; emphasis on the behavior and development of normal children. Prerequisite 101. Two periods of lecture and one of observation-discussion.

Mrs. Sampson

209 (1) (2). EXPERIMENTAL PSYCHOLOGY (1 unit)

Selected experiments in various fields of psychological investigation with emphasis on learning, perception, and memory. Training in experimental method using animal and human subjects. Prerequisite, 101. Laboratory. *Mrs. Furumoto*

210 (1) (2). PSYCHOLOGICAL APPROACHES TO SOCIAL ISSUES (1 unit)

Study of social influence and interpersonal processes. Analyses of current social issues such as mental health, prejudice, international tensions, ethics of social research. Prerequisite, 101. *Mrs. Perlitsh*

212 (1) (2). PERSONALITY (1 unit)

Selected theories of personality. Emphasis on problems of personality assessment, continuity and change in personality over time, and the origins and functions of the self concept. Theorists typically emphasized are: Allport, Erickson, Freud, Kelly, Murray, Rogers. Prerequisite, 101.

Mrs. Schnitzer (1), Mr. Cromer, Mrs. Golomb (2)

217 (1). COGNITIVE PROCESSES (1 unit)

Perceiving, remembering, problem-solving, and creative thinking. Some aspects of the relation between personality and cognition and between language and cognition. Prerequisite, 101. *Mrs. Clinchy*

219 (2). LEARNING (1 unit)

Basic problems and research findings at the human and animal levels. Among topics studied: schedules and parameters of reinforcement, discrimination, generalization, conditioned reinforcement, and behavior correlated with negative reinforcement. Prerequisite, 101. *Mrs. Furumoto*

309 (2). ABNORMAL PSYCHOLOGY (1 unit)

Consideration of major theories of neurosis and psychosis, and of psychotherapeutic techniques based on these theories. Illustrative case ma-

terials. The contribution of the psychology of abnormal behavior to the study of normal behavior. Open to students who have taken 101 and 2 units above grade I in psychology, biological sciences, or sociology. Open only to juniors and seniors. *Mrs. Stiver*

310 (1) (2). GROUP DYNAMICS (1 unit)

The course involves participation in an unstructured group for the purpose of examining group processes such as leadership, influence, group norms, decision making and intergroup relations. Focus on the interaction between individual behavior and group phenomena. Open by permission of the instructor to juniors and seniors who have taken 101 and at least 2 units of grade II work in one or more of the following: psychology, political science, sociology, economics. *Mrs. Perlitsh*

312 (1).* SEMINAR. PERSONALITY (1 unit)

Topic for 1968-69: Some current issues in personality adjustment, including both normal and abnormal functioning. Topics include research on behavior modification, with emphasis on learning approaches to psychotherapy, and the mental health movement, including changing concepts of mental illness. Open by permission to juniors and seniors who have taken 101 and 212. *Mr. Cromer*

317 (2). SEMINAR. DEVELOPMENT OF PERCEPTION AND THINKING (1 unit)

Intensive study of selected research problems. Emphasis on the problem-solving strategies of young children and on the educational implications of research in cognitive development. Open by permission to juniors and seniors who have taken 101 and at least 2 units of grade II. *Mrs. Clinchy*

318 (2).* SEMINAR. MOTIVATION (1 unit)

Analysis of the sources of behavior and the nature of "motivated" behavior. Intensive exploration of selected areas of behavior to illustrate different theories of motivation. Open by permission of the instructor to juniors and seniors who have taken at least 2 units of grade II. (Not offered in 1968-69.)

319 (2).* SEMINAR. PSYCHOLOGY OF LEARNING (1 unit)

Intensive study of selected topics such as conditioned reinforcement, discrimination, and generalization. Emphasis on historical factors and contemporary research. Open by permission to juniors and seniors who have taken at least 2 units of grade II including 219. (Not offered in 1968-69.)

325 (1).* HISTORY AND SYSTEMS OF PSYCHOLOGY (1 unit)

The history of selected topics, issues, and systems in psychology with

* Offered in alternate years.

emphasis on reading of primary sources. Among the topics treated: the mental testing movement and the study of individual differences; the concepts of the reflex and of association. Among the systems treated: Gestalt psychology, behaviorism, and functionalism. Open to juniors and seniors who have taken 101 and at least 2 units of grade II. *Mrs. Furumoto*

327 (2). Seminar. Child Psychology (1 unit)

Topic for 1968-69: The culturally disadvantaged child. Open by permission to juniors and seniors who have taken 101, at least 2 units of grade II including 207, and at least 1 unit of grade III. *Mrs. Sampson*

330 (1). Seminar (1 unit)

Study of a particular problem or area. Topic for 1968-69: Psychological aspects of death. Open by permission to juniors and seniors who have taken at least 3 units of psychology. *Mr. Lester*

345 (2). Senior Major Seminar (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). Research or Independent Study (1 or 2 units)

Open by permission of the department chairman to qualified juniors and seniors.

370 (1-2). Honors Research (2 units)

Required of all honors candidates in the department.

Directions for Election

A major in psychology must include either 101 or [102]†; *two* of the following—200, 201, 209; *one* of the following—207, 210, 212; and *one* of the following—[216]†, 217, 219. Students considering a major in psychology are advised to elect 101 and either 200 or 209 as early as possible in their college careers.

RELIGION AND BIBLICAL STUDIES

Professors Lacheman, Gale, Denbeaux (*Chairman*), Mowry; Assistant Professors Johnson,[a] Petersen; Instructors: Mr. Vanderpool, Mr. Green; Lecturers: Father Smith, Mr. Santmire, Mr. Williams, Mr. Wallwork

104 (1). Studies in the Old Testament (1 unit)

Selective study of historical, wisdom, prophetic, and apocalyptic literature from the Old Testament. Introduction to the method of literary and historical criticism. Consideration of the Biblical tradition in its relation to the individual and society. Open to all undergraduates. *The Staff*

† Numbers in brackets refer to courses listed only in earlier catalogues.
[a] Absent on leave.

105 (2). STUDIES IN THE NEW TESTAMENT (1 unit)

Consideration of the Christian literary genres of gospel, epistle, and apocalypse as reflective of Jesus of Nazareth and of the early Christian faith and social order. Reference to relevant Jewish literature from the early Christian period. Open to all undergraduates. *The Staff*

106 (1). STUDIES IN RELIGION (1 unit)

Images of man, God, and society in Western religious traditions: Judaism, Roman Catholicism, Eastern Orthodoxy, and Protestantism. Lectures and discussion sections. Open to freshmen and sophomores, and to upperclassmen by permission. *The Staff*

107 (2). RELIGION IN THE MODERN WESTERN WORLD (1 unit)

An examination of conflicting theories of religion in modern thought. The criticism and reconstruction of religious forms in the light of modern social and intellectual developments. Readings in Tillich, Eliade, Cox, Rubenstein, and Teilhard de Chardin. Lectures and discussion sections. Open to freshmen and sophomores, and to upperclassmen by permission. *The Staff*

150 (1) (2). COLLOQUIUM (1 unit)

For description of topics and directions for applying see p. 128. Open by permission to a limited number of freshmen and sophomore applicants.

203 (1-2). CLASSICAL HEBREW (2 units)

The elements of Biblical Hebrew grammar, syntax, and vocabulary. Readings of selections from the Old Testament. Open to juniors and seniors. *Mr. Lacheman*

204 (1). THE BEGINNINGS OF CHRISTIANITY (1 unit)

A study of the emergence of the Christian movement with special emphasis upon those experiences and convictions which determined its distinctive character. Intensive analysis of the thought of the Apostle Paul. Some study of other New Testament documents, especially the *Gospel of John*, and of non-canonical materials pertaining to the Christian Church of the first and second centuries. Prerequisite, in 1968-69 [the 2-unit 104]†, thereafter 105. *Mr. Gale*

206 (1). EXILIC AND POST-EXILIC LITERATURE (1 unit)

An historical examination of major literary and theological trends. Studies in both canonical and non-canonical materials with an emphasis

† Numbers in brackets refer to courses listed only in earlier catalogues.

on *Ezekiel, Ezra-Nehemiah, Psalms, Proverbs,* and selections from the *Apocrypha, Pseudepigrapha,* and the Dead Sea Scrolls. Prerequisite, 104. *Mr. Lacheman*

208 (1) (2). Christian Ethics (1 unit)

A study of texts selected from the history of Western ethics. Focus on Christian sources in relation to their critics in classical and contemporary periods. Open to freshmen and sophomores who have taken one course in the department, and to juniors and seniors without prerequisite. *Mr. Wallwork*

213 (2). Judaism from Philo to Spinoza (1 unit)

The history of Judaism in its relation to the Graeco-Roman world, Christendom, and Islam. Reading (in translation) of significant portions of Talmudic, Midrashic, poetic, and speculative literatures. Prerequisite, 104; or by permission to juniors and seniors. *Mr. Lacheman*

216 (1). Patristic and Medieval Christianity (1 unit)

The interaction of the Biblical world view with classical culture and the consequent emergence of specifically Christian thought. The Church Fathers, the theology of the Creeds, Augustine, and medieval theology. Prerequisite, same as for 208. *Mr. Green*

217 (1). Protestantism (1 unit)

An intellectual history of Protestantism from its origins in the 16th century to the beginning of the 20th century. Continuities and diversities within the Protestant heritage. Readings from Luther, Calvin, Fox, Wesley, Coleridge, and others. Prerequisite, same as for 208. *Mr. Vanderpool*

218 (2). American Religious History (1 unit)

An examination of American religious traditions from the Colonial beginnings to the present. Special attention to the interaction of religion with political, social, and intellectual history and to the diverse origins, conflicts, and contributions of Protestant groups, sects, Roman Catholicism, and Judaism. Open to freshmen and sophomores who have taken one course in the department or in American history, and to juniors and seniors without prerequisite. *Mr. Vanderpool*

219 (2). Contemporary Christian Thought (1 unit)

An examination of formative developments in contemporary Protestant and Catholic thought, studying the contributions to the understanding of God and man by such theologians as Barth, Bonhoeffer, Rahner, and Bultmann. Prerequisite, same as for 208. *Mr. Green*

220 (2). CATHOLICISM FROM THE MEDIEVAL WORLD THROUGH VATICAN II (1 unit)

Theological and institutional responses of Catholicism to the Reformation and to modern developments in science, philosophy, culture, and critical Biblical studies. Prerequisites, same as for 208. *Father Smith*

225 (1). ISRAEL AND HER NEIGHBORS (1 unit)

A study of the common patterns of thought and religion in the ancient Near East—and their relation to Israel's religion—as reflected in archaeology and literature. Prerequisite, 104. *Mr. Lacheman*

228 (1). RACE, RELIGION, AND SOCIAL CHANGE (1 unit)

Sociological and theological analyses of the black man's religion in the context of American society and culture, including its relation to the tradition of social protest. Consideration of the influence of such leaders as Frederick Douglass, W. E. B. DuBois, Malcolm X, Martin Luther King, Jr. Open to students who have taken one course in the department or in sociology or anthropology. *Mr. Williams*

251 (1). HINDUISM AND BUDDHISM (1 unit)

A study of the multiple suggestions (devotional, popular, legal, philosophical, and mystical) offered to questions about ultimate reality, the world, and man in the most influential periods of religious thought in India, China, and Japan. Consideration of contemporary religious leaders and their movements. Prerequisite, 106, or by permission. *Miss Mowry*

252 (2). ISLAM (1 unit)

A study of Islam in its major periods. A consideration of the religious influences on Mohammad and his contribution in the Koran to the history of religions. An examination of the medieval Moslems, philosophers and mystics. The social role of Islam in the Middle East, India, Southeast Asia, and Africa. Modern re-evaluation and reform of the tradition. Prerequisite, 106 or by permission. *Miss Mowry*

306 (2). SEMINAR. THE OLD TESTAMENT (1 unit)

A systematic study of important religious ideas of the Old Testament. Prerequisite, 206. *Mr. Lacheman*

307 (1). SEMINAR. THE NEW TESTAMENT (1 unit)

An intensive study of selected New Testament issues. Prerequisite, 204. *Mr. Petersen*

311 (2). THEOLOGY AND ITS EXPRESSION IN LITERATURE (1 unit)

The relation of theology and imagination. A study of the employment of religious symbols in such writers as Dostoevski, Faulkner, Kafka, and

Unamuno. Open to students who have taken one course in the department and one grade II course in literature. *Mr. Denbeaux*

312 (1).* Seminar. Medieval Religious Thought (1 unit)

Subject for 1969-70 to be announced. Prerequisite, 216 or History 219. (Not given in 1968-69.) *Mr. Johnson*

313 (1).* Seminar. Reformation Religious Thought (1 unit)

Subject for 1969-70: Luther. Prerequisite, 216 or 217 or History 217. (Not offered in 1968-69.) *Mr. Green*

315 (1). Seminar. Theological Methodology (1 unit)

The function of theological models and the use of conceptual patterns. Topic for 1968-69: Theologies concerned with questions of evil and meaning, fate and freedom. Prerequisite, 216, 217, 219 or 220. *Mr. Denbeaux*

316 (2). Seminar. Christian Ethics (1 unit)

An intensive study of one ethical problem or set of related problems with readings in relevant theological sources. Prerequisite, 208. *Mr. Wallwork*

317 (1). Kierkegaard (1 unit)

An examination of the writings of Soren Kierkegaard in relation to their theological, philosophical, and cultural origins. Open to juniors and seniors who have taken a grade II course in the department or Philosophy 208. (Not offered in 1968-69.) *Mr. Denbeaux*

345 (2). Senior Major Seminar (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). Research or Individual Study (1 or 2 units)

Open to juniors and seniors by permission.

370 (1-2). Honors Research (2 units)

Required of all honors candidates in the department.

Directions for Election

Students majoring in this department may concentrate in either Biblical studies or religious studies.

The concentration in Biblical studies shall include the following: 104 and 105, either 306 or 307, and one of the following: 213, 216, 217, 220, 251, and 252.

The concentration in religious studies shall include the following: 106 and 107; either 104 or 105; one of the following—312, 313, 315; one of the following—213, 216, 217, 220, 251, 252.

* Offered in alternate years

Majors who have taken a colloquium may substitute it for one of the above requirements by consultation with the department.

Students concentrating in Biblical studies are reminded of the opportunity of studying either Hebrew or Greek. Greek 100 (2) is particularly valuable for the study of the New Testament.

RUSSIAN

PROFESSOR LYNCH; *(Chairman)*; ASSISTANT PROFESSOR PACALUYKO; INSTRUCTOR: MRS. O'CONNOR

100 (1-2). ELEMENTARY RUSSIAN (2 units)

Grammar, oral and written exercises, reading of short stories. Three periods. *Miss Pacaluyko*

200 (1-2). INTERMEDIATE RUSSIAN (2 units)

Reading with emphasis on vocabulary building; review of grammar; composition and oral expression. Discussions based on selected reading in classical and modern Russian literature and in Russian history and culture. Prerequisite, 100, or by permission. *Mrs. Lynch*

201 (1). RUSSIAN LITERATURE IN TRANSLATION I (1 unit)

For description and prerequisite, see Extradepartmental 201.

202 (2). RUSSIAN LITERATURE IN TRANSLATION II (1 unit)

For description and prerequisite, see Extradepartmental 202.

300 (1-2). ADVANCED RUSSIAN (2 units)

Studies in the structure of the Russian language. Reading of literary and historical works. Regular written and oral reports on individual selected topics. First semester may be taken independently. Prerequisite, 200. *Mrs. Lynch*

311 (1).* RUSSIAN LITERATURE FROM ITS BEGINNINGS TO THE SEVENTEENTH CENTURY (1 unit)

Discussion of the Byzantine, Western, and folk influences in the chronicles and epics of the Kievan and Moscovite periods. Reading of the *Igor Tale*, selections from *Primary Chronicle, Zadonshchina.* Prerequisite, 300. (Not offered in 1968-69.) *Mrs. Lynch*

312 (2).* RUSSIAN PROSE OF THE NINETEENTH CENTURY I (1 unit)

The first half of the 19th century from Pushkin to Goncharov. Prerequisite or corequisite, 300. (Not offered in 1968-69.) *Mrs. Lynch*

* Offered in alternate years.

313 (1).* Russian Literature from the Seventeenth Century to Pushkin (1 unit)

Discussion of emerging secular trends in language and in choice of literary subjects. Reading of works by Ivan IV, Avacum, Lomonoson, Radishchev, Karamzin, Krylov, and Pushkin. Prerequisite or corequisite, 300. *Mrs. Lynch*

314 (2).* Russian Prose of the Nineteenth Century II (1 unit)

Trends in the second half of the 19th century and the early 20th century. Emphasis on works by Turgenev, Aksakov, Saltykov-Shchedrin, Chekov, and Bunin. Prerequisite or corequisite, 300. *Miss Pacaluyko*

315 (1).* Dostoevskij and Tolstoj (1 unit)

Study of major works with emphasis on the novels. Prerequisite or corequisite, 300. *Miss Pacaluyko*

316 (2).* Russian Poetry (1 unit)

Discussion of major trends in Russian poetry with emphasis on works by Pushkin, Lermontov, Tjutchev, Blok, Majakovsky, Pasternak. Prerequisite or corequisite, 300. (Not offered in 1968-69.) *Miss Pacaluyko*

350 (1) (2). Research or Individual Study (1 or 2 units)

Open by permission to qualified students.

Directions for Election

Although the College does not offer a major, the interested student may study the Russian language and literature throughout her college career.

Students who wish to do graduate work in Russian are advised to begin or to pursue the study of at least one other modern language.

A proficiency in at least one classical language is highly advisable for those who are planning to do graduate work in Slavic languages and literatures.

SOCIOLOGY AND ANTHROPOLOGY

Professors Stoodley, Eister; Associate Professor Shimony *(Chairman)*; Assistant Professors: Giele, London; Instructor: Mrs. Henderson

102 (1) (2). Introduction to Sociology (1 unit)

Comparative study of different levels of social structure. Communities ranging from rural to urban—the small town, the ghetto, suburbia. Small groups, institutions, and societies. Socialization, social control, and social

* Offered in alternate years.

change. Emphasis on independent projects, student panel discussions. Open to all undergraduates. *The Staff*

104 (1) (2). INTRODUCTION TO ANTHROPOLOGY (1 unit)

Consideration of man's place in nature, his physical history and physical varieties. Brief survey of archaeology and linguistics. The nature of culture with examples primarily from primitive societies. Open to all undergraduates. *Mrs. Shimony*

201 (1). ANTHROPOLOGICAL THEORY (1 unit)

History of ethnological theory. Examination of current evolutionary and functional theories of culture. Discussion of the relation between personality and culture. Problems of method in anthropology. Open to students who have taken 102 or 104, and by permission. *Mrs. Henderson*

202 (1) (2). SOCIOLOGICAL THEORY (1 unit)

Major issues in current theory about social interaction, group structure, conflict, and social change. Development of sociology as a field. Examination of the contributions to sociological theory of Comte, Spencer, Marx, Durkheim, Max Weber, Georg Simmel, and others. Prerequisite, same as for 201. *Mr. Eister*

204 (1). MODERNIZATION OF TRADITIONAL SOCIETIES (1 unit)

The transition from traditional to modern culture, as exemplified by Africa. The indigenous societies; the effects of colonialism; the struggle for independence; industrialization and economic development; urbanization and population growth; nationalism, ideology, and the quest for political stability; involvement in international relations. Prerequisite, same as for 201. *Mrs. Shimony*

205 (2).* SOCIAL ANTHROPOLOGY (1 unit)

Comparative study of social, political, and economic organization of primitive societies. Stability and change of primitive groups in contact with Western culture. Application of anthropology to the problems of underdeveloped countries. Prerequisite, same as for 201. Not open to students who have taken Extradepartmental [222]† (Not offered in 1968-69.) *Mrs. Shimony*

206 (2). SOCIOLOGY OF EDUCATION (1 unit)

For description and prerequisite, see Education 206. *Mr. London*

210 (2). RACIAL AND ETHNIC MINORITIES (1 unit)

An analysis of the problems of racial and ethnic groups in American

* Offered in alternate years.

† Numbers in brackets refer to courses listed only in earlier catalogues.

and other societies. Systematic study of adjustment mechanisms of selected racial, religious, and immigrant minorities, with special emphasis on Negro-white relations. Prerequisite, same as for 201. *Mrs. Shimony*

214 (2). Social Stratification and Power (1 unit)

The nature of the class system in the United States and in other societies. Social problems created by stratification. Roles of the disadvantaged and the privileged in reform movements and revolutions. Prerequisite, same as for 201. Mrs. Giele

220 (1). Urban Society (1 unit)

Origins and development of cities. Theories of urbanization. Problems and future trends relating to the city as a social organization. Prerequisite, 102, 104, or permission of the instructor. *Mr. London*

222 (1). Family and Community (1 unit)

Family life in several periods and social milieux. Its effect on the roles of women and children. The impact of industrialization and the changing relationship between the family and institutions of the community. Prerequisite, same as for 201. *Mrs. Giele*

228 (1). Race, Religion, and Social Change (1 unit)

For description and prerequisite, see Religion and Biblical Studies 228.

230 (1-2). Society and Self (2 units)

Social structure and process with relation to the self. Social contributions and impediments to individual experience. Institutionalization of goals, attitudes, and ideas. Social factors associated with conformity, innovation, and deviance. Prerequisite, same as for 201. First semester may be elected independently; the second, independently by permission. *Mr. Stoodley*

235 (2). Public Opinion and Mass Media of Communication (1 unit)

Analysis of mass media of communication such as newspapers and television. Elements of communication process; symbols and their relation to cognition and persuasion. Evaluation of mass media in advanced and developing societies. Prerequisite, same as for 201. *Mr. Stoodley*

250 (1). Methods of Social Research (1 unit)

An introduction to the techniques for collecting and analyzing social data including sampling. Consideration of ways in which research is designed to test hypotheses. Field experience in interviewing; coding and data analysis. Prerequisite, same as for 201. *Mr. London*

302 (2). SOCIAL AND CULTURAL CHANGE (1 unit)

Review of leading theories about the nature and sources of social change. Analysis of change in the social organization, cultural patterns, and social behavior of people in selected countries. Prerequisite, 2 units of grade II work, or by permission. (Not offered in 1968-69.) *Mr. Eister*

310 (1). GROUP DYNAMICS (1 unit)

For description and prerequisite, see Psychology 310.

312 (2). SEMINAR. RELIGION AND SOCIETY (1 unit)

Readings and research on problems of defining and assessing the influence of religious organizations and beliefs in contemporary society. Prerequisite, same as for 302. *Mr. Eister*

315 (1). SEMINAR. SOCIAL AND POLITICAL MOVEMENTS (1 unit)

Topic for 1968-69: Black power and the civil rights movement. Prerequisite, same as for 302. *Mrs. Giele*

320 (2). SEMINAR. URBAN SOCIAL SYSTEMS (1 unit)

Impact of the urban environment upon selected social systems. Prerequisite, 220. *Mr. London*

323 (1). SEMINAR. DEVIANCE (1 unit)

Topic for 1968-69: The juvenile delinquent and social justice. Prerequisite, same as for 302. *Mr. Stoodley*

332 (1). SEMINAR (1 unit)

Topic for 1968-69: The Negro in Africa and America. Prerequisite, open to juniors and seniors by permission of instructor. Same course as History 332. *Mrs. Shimony* and *Mrs. Preyer*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open to juniors and seniors by permission.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

Students considering a major may consult any member of the department concerning sequences of courses in the field and related courses in other departments. At least one course in anthropology is advised. 202 should ordinarily be included in the major, preferably not later than the

junior year. Students planning graduate work in sociology are urged to elect 250 and a course in statistics.

SPANISH

PROFESSOR RUIZ-DE-CONDE; ASSISTANT PROFESSOR DEUEL *(Acting Chairman)*; INSTRUCTOR: MR. GOSTAUTAS

Courses of the department are normally conducted in Spanish; oral expression is stressed.

The department reserves the right to place a new student in the course for which she seems best prepared regardless of the number of units she has offered for admission.

Qualified students may take advantage of the junior year in Spain. See The Junior Year Abroad, p. 34.

100 (1-2). ELEMENTARY SPANISH (2 units)

Grammar, reading, composition, dictation, practical conversation on everyday life, short lectures in Spanish. Stress on the intensive oral approach. Open to students who do not present Spanish for admission. Three periods. *The Staff*

102 (1-2). INTERMEDIATE SPANISH (2 units)

Review of grammar and related language skills with intensive oral-aural practice, reading (first semester from contemporary Hispano-American authors; second semester from 19th century Spanish literature) with emphasis on vocabulary building, oral, and written expression. Prerequisite, two admission units in Spanish, or 100. Three periods. *The Staff*

104 (1-2). REPRESENTATIVE MODERN AUTHORS (2 units)

Analysis of selected literary works of the 19th and 20th centuries: prose, poetry, and drama. Constant practice in the written and spoken language. Prerequisite, [101]†, three admission units in Spanish, or by permission. *The Staff*

201 (2). ORAL AND WRITTEN COMMUNICATION (1 unit)

Practice in conversation and writing to increase fluency and accuracy in the use of idiomatic Spanish. Prerequisite, 102, [103]†, or four admission units in Spanish. *Mrs. Ruiz-de-Conde, Mr. Gostautas*

203 (2). MODERN SPANISH LITERATURE: POETRY AND THE THEATRE (1 unit)

From "la Generación del '98" to the present. Authors studied include Unamuno, Antonio Machado, and García Lorca. Prerequisite, same as for 201. *Mr. Gostautas*

† Numbers in brackets refer to courses listed only in earlier catalogues.

204 (1). MODERN SPANISH LITERATURE: THE NOVEL AND THE ESSAY (1 unit)

From "la Generación del '98" to the present. Authors studied include Unamuno and Ortega. Prerequisite, 203, or, by permission, 102, [103]†, or four admission units in Spanish. *Miss Deuel*

205 (1). INTRODUCTION TO HISPANO-AMERICAN LITERATURE (1 unit)

An historical consideration of Hispano-American culture with emphasis on literature and other arts. Prerequisite, same as for 201.

Mr. Gostautas

206 (1-2). MAIN CURRENTS OF SPANISH LITERATURE (2 units)

The study of outstanding works and themes which express the Spanish conception of man and the world. Novels, dramas, and poetry chosen from significant periods of Spanish literature. Prerequisite, same as for 201. *Mrs. Ruiz-de-Conde*

301 (1).* DRAMA OF THE SEVENTEENTH CENTURY (1 unit)

The characteristics of the Spanish drama of the Golden Age. Analysis of ideals of this period as revealed in the drama. Representative masterpieces of Lope de Vega, Castro, Alarcón, Tirso de Molina, Calderón. Open to juniors and seniors who have taken 2 units of grade II, including one in literature. (Not offered in 1968-69.)

302 (1).* CERVANTES (1 unit)

Study of Cervantes and his work, representing the culmination of the novel in Spain. Reading of *Novelas Ejemplares;* analysis and discussion of ***Don Quijote.*** Prerequisite, same as for 301. *Mrs. Ruiz-de-Conde*

306 (2).* MODERN HISPANO-AMERICAN LITERATURE I (1 unit)

Study of the main literary currents in Mexico; analysis of present-day trends in prose and poetry. Prerequisite, same as for 301. Not open to students who have taken [202]†. (Not offered in 1968-69.) *Miss Deuel*

307 (2).* MODERN HISPANO-AMERICAN LITERATURE II (1 unit)

Study of the literature of Argentina; analysis of present day trends in prose and poetry. Prerequisite, same as for 301. *Miss Deuel*

310 (2).* SEMINAR (1 unit)

Topic for 1968-69 to be announced. Prerequisite, 203 and 204, or 206, or by permission. *Mrs. Ruiz-de-Conde*

† Numbers in brackets refer to courses listed only in earlier catalogues.
* Offered in alternate years.

311 (2). SEMINAR. SPANISH POETRY (1 unit)

Topic for 1969-70 to be announced. Prerequisite, same as for 310. (Not offered in 1968-69.) *Mrs. Ruiz-de-Conde*

345 (2). SENIOR MAJOR SEMINAR (1 unit)

Required in the senior year of all majors except honors candidates.

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to seniors who have taken 2 units of grade III in the department.

370 (1-2). HONORS RESEARCH (2 units)

Required of all honors candidates in the department.

DIRECTIONS FOR ELECTION

Course 100 counts for the degree but does not count toward the major.

Students who begin with 100 in college and who wish to major should consult the chairman of the department in the second semester of their freshman year.

The major should ordinarily include 201, 206, 301, 302, two additional units of grade III literature, and History 214. Extradepartmental 330 is recommended as related work.

Students interested in Latin American studies are invited to confer with the chairman to plan a major in Spanish with emphasis on Latin America.

EXTRADEPARTMENTAL COURSES AND PROGRAMS

The following section includes several separate courses of interest to students in various disciplines and three major programs which involve work in more than one department.

101 (1).** Hellenic Heritage (1 unit)

Reading from the works of Homer, the Greek dramatists, Thucydides, and Plato. An introduction to classical literary forms and ideas that continue to concern the Western world. Open to all undergraduates.

Miss McCarthy

104 (2).** Classical Mythology (1 unit)

The more important classical myths read in English translations of Greek and Latin authors; their religious origins; their expression in ancient literature and art; their later influence. Open to all undergraduates.

Mrs. Lefkowitz

108 (2).** Interpretations of Man in Western Literature (1 unit)

Representative views of the nature of man reflected in a selection of major works of European literature. The readings, chosen to emphasize the classical heritage, will include works of Vergil, Augustine, Dante, Machiavelli, Montaigne, Milton, Goethe, and Eliot. Open to sophomores, juniors, and seniors, and to freshmen who have taken Extradepartmental 101. A reading list will be provided for upperclass students who have not taken 101 or its equivalent. *Mr. Layman*

110 (1). Introduction to Automatic Computation (1 unit)

Modeling of computational processes as sequential algorithms. Formal and informal techniques for the representation of these algorithms and their implementation on digital computers. Experience in programming and running of elementary problems in an algebraic and an assembler language. Open to all undergraduates. *Mr. Bushkin*

201 (1).** Russian Literature in Translation I (1 unit)

Russian literature from its beginnings to the middle of the 19th century with emphasis upon the works of Pushkin, Lermontov, Gogol', Turgenev, and Dostoyevsky. Open to juniors and seniors. *Mrs. O'Connor*

202 (2).** Russian Literature in Translation II (1 unit)

Russian literature from the second part of the 19th century to the pres-

** This course may be elected to fulfill in part the distribution requirement in group A.

ent with emphasis upon the works of Tolstoj, Chekhov, Sologut, and such Soviet writers as Babel, Olesha, Pasternak, and Bulgakov. Open to juniors and seniors. *Mrs. O'Connor*

216 (1). APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES I (1 unit)

Topics in applied analysis, functions of several variables, vector analysis. Prerequisite, Mathematics [109]†, [200(1)]†, or 111, or the equivalent. Two periods weekly with a third period every other week. *Mr. Zimmermann*

217 (2). APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES II (1 unit)

Differential equations arising in the sciences. Approximate methods, probability and statistics. Prerequisite, Extradepartmental 216; or by permission Mathematics [201]†, [204]†, or 208 or the equivalent. Two periods weekly with a third period every other week. *Mr. Zimmermann*

218 (1-2).*** HISTORY OF SCIENCE (2 units)

Selected topics in the development of science: for example, the new physics of the 17th century, 19th century atomic-molecular theory, stability and change in living organisms, the nuclear atom. Consideration of certain major scientific ideas, of the experimental or observational situations giving rise to them, and of the interaction of scientific ideas with man's thought in other areas. Open to juniors and seniors who have completed Physics 100, 103, or 105, or the equivalent, and a second unit in science or mathematics, and 2 units in history and/or philosophy, or by permission. Four laboratory-demonstration sessions each term. By permission the first term may be elected independently. *Miss Webster*

221 (1). TURNING POINTS IN RECENT SCIENTIFIC THOUGHT (1 unit)

An examination of the 20th century scientific enterprise: its roots in earlier systems and its wider cultural significance, together with a consideration of the origin and status of certain current issues within science and their general relevance to society. Open to juniors and seniors. *Miss Goodfield*

224 (1). MIND AND MATTER (1 unit)

Study of historical and contemporary ideas in neurophysiology and of philosophical theories of human understanding. Open to juniors and seniors who have had 2 units in biology or 2 units in philosophy. *Miss Goodfield* and *Mrs. Harrison*

† Numbers in brackets refer to courses listed only in earlier catalogues.

*** This course may be elected to fulfill in part the distribution requirement in group C.

330 (2). SEMINAR. COMPARATIVE FOREIGN LITERATURE (1 unit)

Topic for 1968-69: Concepts of the hero in selected works from European literature. Open by permission to junior and senior majors in French, German, Greek, Italian, Latin, Russian, or Spanish, who have completed at least 2 units of grade III work in literature in the major. *Miss Goth*

AFRO-AMERICAN STUDIES

Director: MRS. PREYER

A major in Afro-American studies provides opportunity for cross-departmental study of the African background of American Negro culture, of American historical, political, and social institutions, and of the contemporary urban and legal condition of Blacks in America. Students, in consultation with the Director, may construct a major adapted to individual interests. Normally at least 4 units are to be elected in one of the following departments: History, Political Science, Sociology; and at least four additional units of related work in these or other departments such as Economics, Psychology, Religion and Biblical Studies.

CHINESE

Lecturer: MRS. LIN, MRS. YU

Although the College does not offer a major, students may elect as many as 6 units in Chinese.

100 (1-2). ELEMENTARY CHINESE (2 units)

Introduction to modern spoken and written Chinese. Open to sophomores, juniors, and seniors, and to freshmen by permission. Four periods. *Mrs. Lin, Mrs. Yu*

200 (1-2). INTERMEDIATE CHINESE I (2 units)

Reading with emphasis on vocabulary building; review of sentence structure, composition, and oral expression. Discussion of current events and cultural topics. Prerequisite, 100 or by permission. Four periods. *Mrs. Lin, Mrs. Yu*

250 (1-2). INTERMEDIATE CHINESE II (2 units)

Reading and discussion in Chinese of selections from contemporary writings. Some study of the forms occurring in passages from the classics quoted in vernacular texts. Prerequisite, 200 or by permission. Three periods. *Mrs. Lin*

350 (1) (2). RESEARCH OR INDIVIDUAL STUDY (1 or 2 units)

Open by permission to qualified students.

CLASSICAL ARCHAEOLOGY

Director: MRS. VERMEULE

An interdepartmental major in classical archaeology gives opportunity for a study of classical civilization through its art, literature, and history with emphasis on either the Greek or Roman period.

The student's program should normally include ancient history (2 units), art (4 or 5 units), Greek or Latin language and literature (6 or 7 units); independent study (1 or 2 units) of an archaeological topic, preferably correlating work in art and literature or history (345, 350, 370). In addition to the work elected in either Greek or Latin the candidate must give evidence of a working knowledge of the second language. Basic reading knowledge of German or French is recommended.

Programs will be adapted to individual interests within the field.

MOLECULAR BIOLOGY

Directors: MISS ROCK, MISS PADYKULA

The Departments of Biological Sciences and Chemistry offer an interdepartmental major in molecular biology which gives opportunity for advanced study of the chemistry of biological systems.

In addition to one or two units of biochemistry ([321]†, 322 323), the area of concentration will include 5 units of chemistry (103 or 106, 107, 201, 202, 301), 5 units of biology including in general 2 units of grade III, Physics 100, 103, or 105, and Mathematics [109]†, 111, or the equivalent. Students who exempt any units of grade I may substitute further units in biology, chemistry, mathematics, or physics.

THEATRE STUDIES

Director: MR. BARSTOW

Although the College does not offer a major, students may elect as many as 6 units in theatre studies.

A student who wishes to pursue an interest in theatre should consult the Director of Theatre Studies about course selection which will emphasize dramatic literature in English and foreign languages together with the history and philosophy of art.

203 (1).* PLAYS, PRODUCTION, AND PERFORMANCE (1 unit)

Representative plays of major eras in the history of the theatre considered in terms of both the original conditions of performance and pres-

* Offered in alternate years.

† Numbers in brackets refer to courses listed only in earlier catalogues.

ent-day stagecraft; particular attention to direction, design, and acting as these complete the creation of the dramatist. Open to sophomores who have taken a college literature course and to juniors and seniors without prerequisite. *Mr. Barstow*

207 (1).* EARLY MODERN THEATRE (1 unit)

Ibsen, Strindberg, and Chekhov, and their forerunners and immediate successors; particular attention paid to theatrical conditions, producers, designers, and actors associated with stage production of the plays studied. Prerequisite, 203, or by permission; open to juniors and seniors without prerequisite. (Not offered in 1968-69.) *Mr. Barstow*

208 (2).* CONTEMPORARY THEATRE (1 unit)

Mid-20th century dramatists and production styles; plays, producers, designers, and actors significant in the development of contemporary theatre. Prerequisite, same as for 207. (Not offered in 1968-69.) *Mr. Barstow*

210 (1-2).* HISTORY OF THE THEATRE (FIFTH CENTURY B.C. TO THE PRESENT) (2 units)

Study of theatre structures, crafts, and practices, with emphasis on acting and production styles as these relate to major developments in dramatic literature. Prerequisite, same as for 207. By permission, either term may be elected independently. *Mr. Barstow*

215 (1).* SHAKESPEARE IN THE THEATRE (1 unit)

Study of production of Shakespeare's plays in the theatre; particular attention to Elizabethan stagecraft and to contemporary production styles; emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite, 203 and English 215 or 309, or by permission. (Not offered in 1968-69.) *Mr. Barstow*

* Offered in alternate years.

FRESHMAN-SOPHOMORE COLLOQUIA

The colloquia are designed for freshmen and sophomores who are interested in concentrated study of a significant, well-defined topic. They offer students the opportunity to work in small groups in close association with faculty members. Most are open without prerequisite though a few presuppose some earlier study of the field, either in secondary school or in a college course. They are similar to seminars in method and approach in that they stress independent work, discussion, and student reports.

Each colloquium counts as a 1-unit course, and may be elected to satisfy in part one of the distribution requirements.

Since enrollments are limited, a student may not ordinarily enroll in more than one colloquium. She may, however, apply for more than one, indicating her first and second choices.

Incoming freshmen may obtain application forms from the class dean, sophomores from the department chairman. If a colloquium is oversubscribed, the chairman or instructor, in consultation with the class dean, will decide which applicants will be accepted.

TOPICS FOR 1968-69

Biological Sciences 150 (1) (2).

Laboratory or field experimentation, combined with readings and discussions. Student reports. Prerequisite, 1 unit of college biology or strong secondary school preparation.

First Semester

Structure and function in microorganisms. *Mrs. Allen*

Genetic systems in protozoa. *Miss Widmayer*

Second Semester

Cell division: Current theories of cell division and differentiation in normal, regenerating, and neoplastic systems. *Mrs. Melvin*

Aspects of photosynthesis and chemosynthesis. *Mr. Bibb*

English 150 (1) (2).

Close analysis of a single literary text with attention to historical contexts as well as literary traditions and relations.

First Semester

Antony and Cleopatra ***Mr. Gold***

Middlemarch *Mr. Kurtz*

Second Semester

Moby Dick *Mr. Quinn*

HISTORY 150 (1) (2).

First Semester

Racism and reform in the South, 1890-1915. *Mr. Cooper*

Changing modes of political realism in foreign policy as reflected in the statecraft of Machiavelli, Napoleon, Castlereagh, Bismarck, and Woodrow Wilson. *Mr. Gulick*

Second Semester

Beginnings of civilization in the Fertile Crescent and Egypt. *Mr. Lacheman*

The ideas and institutions of learning in the "renaissances" of the 9th, 12th, and 15th centuries. *Mrs. McLaughlin*

Christian missions and modern East Asian history. *Mr. Cohen*

POLITICAL SCIENCE 150 (1) (2).

First Semester

Civil disobedience. *Mr. Stettner*

Second Semester

The gulf between the rich and poor nations: perspective from India. *Mr. Phibbs*

Violence as a factor in international and domestic politics. *Mr. Rosenbaum*

RELIGION AND BIBLICAL STUDIES 150 (1) (2).

First Semester

Religious reform in American industrial society, 1876-1917. *Mr. Vanderpool*

Second Semester

The Dead Sea Scrolls: A study of eschatology and community. *Miss Mowry*

The contemporary dialogue between Christianity and Marxism. *Mr. Green*

ADMISSION

Students who wish to apply for admission to Wellesley College as undergraduates should write to the Director of Admission. She is always glad to answer inquiries from students, their parents, or their schools about admission requirements and the procedures for applying.

The Board of Admission consists of eight representatives of the faculty and officers and is chaired by the Director of Admission; it acts with final authority in determining which candidates will be admitted. Among the many applicants of good intellectual ability and character, it seeks each year to admit a class whose members are eager to learn and who together provide a stimulating diversity of backgrounds and special interests.

Each candidate is required to have a personal interview either at the College or in her home or school region. Upon request from the candidate, the Director of Admission will forward the name and address of the alumna interviewer in her area.

It should be noted that many types of illness and disability are not insurmountable handicaps at Wellesley College, but the College cannot encourage the entrance of students who find walking very difficult, nor can it supply special diets except during temporary illnesses.

ADMISSION OF FRESHMEN

Entrance Requirements

Entering students normally have completed four years of college preparatory studies in secondary school. Good preparation for work at Wellesley College includes four years of English, a minimum of three years of mathematics (four years are recommended for students planning to concentrate in mathematics, pre-medicine, or physical science), one or more courses in a laboratory science and in history, and courses in either Latin or Greek and in a modern foreign language. If a student is not able to study one language for at least three years and another for at least two years, she is advised to study one language, ancient or modern, for four years.

The Board of Admission is glad to consider applications from able, serious students whose schools do not offer all the courses recommended above.

APPLICATION FOR ADMISSION

Application forms may be secured from the Director of Admission. A fee of $15.00 must accompany the formal application. This fee is not refunded if a candidate withdraws her application or is not admitted.

ADMISSION PLANS

1. Early Decision:

This plan is intended for the student with a very good record who decides early that Wellesley is the college which she wishes to attend and who agrees to file no other college application until after receiving the decision of the Board of Admission on her single application. She must have taken the appropriate College Board examinations in her junior year in school and must apply and complete a form entitled "Request for Early Decision" by October 1 of her last year in school. All supporting credentials and interview must be completed by November 1. A letter informing her of the Board's decision will be mailed by December 1.

2. April Decision:

A candidate who uses the regular plan of admission must file an application by January 1 of her last year in school. All supporting credentials and interview must be completed by February 1. A letter informing her of the Board's decision will be mailed in April.

N.B. Early Admission:

A very few unusually mature students whose achievement in secondary school is superior are considered for admission after only three years of high school. These candidates are required to have an interview at the College. In all other respects they follow the regular procedures for entrance.

ENTRANCE PROCEDURES

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all applicants for admission. Among the Achievement Tests, the English Compo-

sition Test is required and two other tests chosen from two of the following fields: 1) foreign languages 2) social studies 3) either mathematics or science.

Each applicant is responsible for arranging to take the tests and for requesting the College Entrance Examination Board to send to Wellesley College the results of all tests taken. The Board sends its publications and the necessary registration forms to apply for the tests to all American secondary schools. The applicant may obtain the registration form at her school, or may obtain it by writing directly to the College Entrance Examination Board at Box 592, Princeton, New Jersey 08540; or, if she lives in a western state, western Canada, Australia, Mexico, or the Pacific Islands, at Box 1025, Berkeley, California 94701.

TIMING OF THE EXAMINATIONS

1. Early Decision Plan:

A candidate for admission under the Early Decision Plan should take the Scholastic Aptitude Test in March or May of her junior year and the Achievement Tests in May of her junior year or in the July following her junior year.

2. April Decision:

The Scholastic Aptitude Test should be taken in November, December or January of the senior year. The Achievement Tests may be divided between May or July of the junior year and December or January of the senior year. Tests taken in March of the senior year are not suitable since the results will be received too late to be considered for an April decision.

Note: Applications and fees should reach the College Board Office approximately seven to eight weeks before the dates of the tests specified below.

Dates of Tests:

November 2, 1968 (Scholastic Aptitude Test only)
December 7, 1968
January 11, 1969
March 1, 1969
May 3, 1969
July 12, 1969

ADVANCED PLACEMENT AND CREDIT

Applicants for admission who are studying under the Advanced Placement Program of the College Board or who are working beyond the usual secondary school level independently or in some other program will wish to read carefully pages 29-30 of this catalogue. It gives information about placement in advanced courses in the freshman year, exemption from required studies, and credits toward the bachelor's degree which may be earned prior to admission. An entering freshman who is interested in advanced placement or exemption should explain this in writing to her class dean during the summer. If she is considering acceleration and early graduation, she should consult her dean during the first term of her freshman year.

STUDENTS FROM ABROAD

American citizens residing abroad and foreign citizens residing in the United States who wish to apply to Wellesley College should follow the procedures and time-schedules described above.

A student interested in attending Wellesley College who is both a citizen and a resident of a foreign country should apply well before January 1 of the year in which she plans to enter college and should address all inquiries concerning admission and financial aid to the Foreign Student Adviser, giving her reasons for wishing to attend, her citizenship, the school she is attending, and a detailed statement of her previous educational experience. She should make arrangements to take the College Board Examinations no later than January of the year of proposed admission. These examinations should include the Scholastic Aptitude Test, an Achievement Test in English Composition, and two additional tests in subjects other than the student's native language.

ADMISSION OF TRANSFER STUDENTS

Wellesley College accepts a limited number of sophomore and junior transfer students who offer excellent academic records and strong recommendations from their dean and instructors. A student wishing to apply for admission with advanced standing should make application before February 1 on forms which may be obtained from

the Director of Admission. A non-refundable application fee of $15 should be sent with the completed application form.

Credit for courses completed at another college is tentatively granted early in the first year of residence at Wellesley. The final determination of credit which depends upon the quality of the student's work at Wellesley College is not made until the end of her first year here.

READMISSION

A student who has withdrawn from college and wishes to return should apply to the Office of the Deans for the appropriate forms. Readmission will be considered in the light of the reasons for withdrawal and reapplication, and of the space currently available. A non-refundable fee of $15.00 must accompany the reapplication form.

ADMISSION OF GRADUATE STUDENTS

Wellesley College accepts a limited number of candidates for the degree of Master of Arts. A summary of requirements for the master's degree appears on page 33. Interested students should write to the Chairman of the Committee on Graduate Instruction.

FINANCIAL AID

Wellesley College's program of financial aid for students is intended to open educational opportunity at the College to serious and worthy students without regard to their financial circumstances and to have the college community enriched by a student body representative of various economic and geographic groups. Currently about $500,000 from college sources and another $100,000 from the Wellesley Students' Aid Society are awarded annually in the form of gifts, loans, and work guarantees. This makes possible assisting approximately one hundred students in each class to meet the cost of the inclusive fee. The Students' Aid Society also offers personal assistance through loans of books and other items, gifts of clothing, and loans of small amounts of money for incidental expenses and special emergencies.

Financial aid is given only to students who require assistance in order to attend. Awards vary in size according to individual need and may amount to the full fee. Although they are given only for one year at a time, the College expects to renew them as needed throughout the four years for all holders whose records as students and as citizens of the college community are considered satisfactory by the Wellesley College Committee on Scholarships. Awards to freshmen are normally a combination of gift and interest-free loan. Awards to upperclassmen ordinarily also include a guarantee of term-time work on the campus.

Ten special scholarships are available for residents of the Town of Wellesley who meet the standards of admission and thereafter maintain diploma grade standing.

APPLICATION FOR FINANCIAL AID

Each registered applicant for admission who desires financial aid must secure two forms not earlier than her last year in school and must file them in the places indicated below by October 15 of her senior year for Early Decision applicants, by January 15 for April Decision applicants.

1. *Wellesley College Application for Financial Aid.* This form should be requested of and returned to the Financial Aid Officer, Wellesley College.

2. *Parents' Confidential Statement.* This form is available in the secondary schools, or may be obtained by writing to the College Scholarship Service, Box 176, Princeton, New Jersey 08540; Box 881, Evanston, Illinois 60204, or Box 1025, Berkeley, California 94701. A copy can also be provided by the Financial Aid Officer if specifically requested by an applicant. The *Parents' Confidential Statement* should be filed with the College Scholarship Service. The Service will then forward a copy for confidential use to the college or colleges indicated on the form.

Candidates for admission who have sufficient funds for the first year but who foresee a need for assistance for the later years should inform the Financial Aid Officer by January 15 of their senior year in school. The College endeavors to reserve funds to meet the needs of qualified students who do not require aid on entrance but who anticipate financial problems during the later college years.

Applications for aid from students in college should be filed with the Financial Aid Officer on forms obtained at the College in accordance with instructions posted annually.

Wellesley College also administers low-interest-bearing loans made available under the National Defense Student Loan Program. Students with financial need who are not granted college awards by the College Committee on Scholarships may obtain application forms for National Defense Loans from the Financial Aid Officer.

Educational Opportunity Grants are also administered by the College.

GRADUATE FELLOWSHIPS

Wellesley College administers several graduate fellowships for use in any institution, some of them open to alumnæ of any college, some of them limited to graduating seniors and alumnæ of Wellesley. Application forms for graduate fellowships may be secured from the Secretary of the Committee on Graduate Fellowships, the President's Office. Applications and supporting credentials for the fellowships described below are due in the President's Office by February 20, except as noted.

FELLOWSHIPS FOR ALUMNAE OF WELLESLEY COLLEGE

The Mary Elvira Stevens Traveling Fellowship provides a stipend of $7000 a year without restriction as to field for an alumna of Wellesley College of at least twenty-five years of age to travel or study outside the United States. It will be assigned again in 1968-1969 for use beginning in 1969-1970. Applications are due by January 10, 1969.

Five other graduate fellowships providing stipends of $2500 are open only to alumnæ of Wellesley College: the Horton-Hallowell Fellowship preferably for a candidate for the Ph.D. degree or its equivalent, and the Fanny Bullock Workman Scholarship, both without restriction as to field; the Anne Louise Barrett Fellowship, preferably for study in the field of music; and, awarded in alternate years, the Vida Dutton Scudder Fellowship for study in the field of social science, political science, or literature, and the Edna V. Moffett Scholarship, preferably in the field of history, every third year. These are in addition to the Trustee Scholarships which are described on page 32.

Graduates of the College are eligible to compete for three fellowships of $2000 which are awarded annually by the American School of Classical Studies in Athens. Qualified graduates are exempt from any charge for tuition at the American School of Classical Studies in Athens or in Rome.

FELLOWSHIPS OR ASSISTANTSHIPS FOR ALUMNAE OF ANY COLLEGE

Several scholarships are available for candidates for the degree of Master of Arts at Wellesley College. Also, assistantships, which provide stipends of $2000, are available in certain science departments for candidates for the master's degree. Information may be obtained from the Secretary of the Committee on Graduate Instruction.

Three graduate fellowships for study at the institution of the candidate's choice are administered by Wellesley College and are open to alumnae of any college including Wellesley College. They provide stipends for $2500. The Alice Freeman Palmer Fellowship is without restriction as to field; the M. A. Cartland Shackford Medical Scholarship is for the study of medicine with a view to general practice, not psychiatry; the Harriet A. Shaw Scholarship, awarded in alternate years, is preferably for the study of music.

GENERAL INFORMATION AND REGULATIONS

REGISTRATION

Each student must register in her residence hall at the beginning of each college year. The time of registration is stated in the calendar on page 2.

FRESHMAN ORIENTATION

Entering students come into residence two days before most upperclassmen. During this period they meet their class dean, their advisers, other offcers of the College, and some upperclassmen who answer their questions and help them to become acquainted with the activities and traditions of the College. They visit the library, take appropriate placement tests, and have opportunity to consult their dean or adviser should changes in their programs of study seem advisable. Special events of various types are scheduled for entering students during their first week at Wellesley.

ADVISING OF STUDENTS

Class deans are members of the faculty who are relieved of some teaching duties in order to act as advisers of students. They are ready to discuss informally with individual members of their classes any academic or personal concern which the student may have or, if more specialized help is desired, to direct the student to the person at the College who is best qualified to encourage her particular interest or meet her special need. In addition, they cooperate with faculty committees, heads of house, doctors, and student leaders in efforts to establish sound general policies. Usually each class has one dean for the first two years and another dean for the last two years. The Freshman Dean works closely with a group of selected faculty advisers who in turn are responsible for advising approximately half of the class.

ACADEMIC STANDARDS

Each student is given full responsibility for her attendance at classes and for the timely preparation of her work. In case of illness or other difficulty she should consult her dean for assistance in making special arrangements for her studies.

The student is expected to prepare all her work with integrity and to abide scrupulously by the regulations of the faculty concerning academic work. The College attaches major importance to this. A student who finds herself in doubt as to a proper method or course of action should consult her instructor or dean immediately.

At the end of each term the academic record of each student is reviewed, including her grades, evidence of serious interest in her work, and potential for further achievement. A student may be excluded from the College if she has given little evidence of interest or growth in her work or if it is below diploma grade standing. If the record, although not satisfactory, shows promise, the student is warned and efforts are made to help her improve it. A student who makes consistent effort rarely has to be excluded. Ordinarily no student may enter the senior year who is below diploma grade standing or has failed to complete the foreign language requirement.

RESIDENTIAL LIFE

Residence Halls

Wellesley College maintains thirteen large residence halls, each of which has its own living rooms and dining room. Students in proportionate numbers from all four classes live in each hall. A Resident Head of House who is interested in the welfare of each student works with the students in her hall to create an environment which invites study and intellectual discussion as well as relaxation and entertainment of friends.

Rooms are assigned to entering students with a view to maintaining among the freshmen in each hall representative diversity in background and interests. Regulations for moving from one hall to another at the end of each year vary from time to time but are always based on general policies equally applicable to all students. Only juniors are assured in advance that if they wish they may continue in the same residence hall for the following year.

Rooms are equipped with essential furniture. Students are expected to furnish blankets and couch covers, and to furnish bed linen and towels or rent them from a supply company designated by the College. A list of permissible additions is sent to each entering student. It should be noted that the College accepts no responsibility

for the safety of personal possessions of the student. She may leave her possessions at her own risk in her room or in designated storage areas. Valuable items should be left at home or should be insured.

The College reserves the right to inspect any room at any time and to dispose of articles remaining unclaimed after due notice or after a student has left college, either by withdrawal or graduation. Residence halls are closed during Christmas and spring vacations. During the spring vacation, one hall is kept open on a per diem basis if enough students wish to remain. A Resident Head is in charge of the vacation house.

RULES OF RESIDENCE

Residence in college halls is required of all undergraduate students except those who commute from their parents' homes near the College and the married juniors or seniors who have permission to commute from their own homes. Once admitted to the College, a student may expect continuing opportunity to live in the college residence halls so long as her academic progress is considered satisfactory and she upholds high standards of civic and personal morality as well as the specific rules of residence which are stated in the College Government Handbook. She is expected to keep her room clean and to contribute two to three hours a week to light housework which is scheduled by student Heads of Work. Resident freshmen have a limited number of overnight absences in the first semester; other students, given parental permission, have no limitation on absences. In the junior and senior years, resident students may have cars.

Married students are not allowed in the freshman or sophomore classes. A student who plans to be married and wishes to continue her studies at the College may apply to the Dean of Students for permission to become a non-resident student, provided she will have lived in the College residence halls for at least two years prior to her marriage. Permission is given if the student has a satisfactory academic and civic record and her new home is to be within thirty miles of the College.

Ordinarily a married junior or senior may not live at the College. In an exceptional case and if permission has been requested and received from the Dean of Students at least one month before the marriage, a married junior or senior may live at the College.

HEALTH SERVICES

The services of the college physicians, psychiatrists, and nurses are available to students without charge both in the clinic and in the twenty-nine bed hospital on the campus. When advisable, specialists in the Greater Boston area are within easy reach for consultation.

Each resident student is allowed annually six free days in the infirmary, only three of which may be taken at any one time, when prescribed by a college physician. Thereafter the charge is eighteen dollars per day. The expense of special service in the infirmary or of outside consultation or hospitalization must be met by the student. The College strongly recommends purchase of a group student health and accident insurance policy which protects the student over a twelve-month period whether or not in residence at the College. Details concerning this policy are sent to all parents.

Each new student is required to submit by June 1 of the year of entrance a detailed Health Examination Report on forms supplied by the college Health Service. Certifications of immunization against small pox and tetanus are required, as well as chest X-Ray and ophthalmologist's certificates. Immunizations against poliomyelitis, typhoid, and diphtheria are recommended. Failure to complete any portion of the requirements will necessitate a special examination on arrival, at the student's expense. The college physicians rely on these examinations to determine the physical needs of each student and to make proper recommendations to the Department of Physical Education. The Health Report also makes possible cooperation with home physicians in continuing necessary treatment.

Cooperation with the college physician is a requirement of residence. A student in residence must notify a college physician before consulting a physician outside of the College or before leaving the campus for reasons of health. If she needs medical attention when away from the campus, she should inform her class dean immedi-

ately upon her return and take to the infirmary a statement signed by the attending physician.

In case of serious illness parents are notified by telegram or telephone, but the College reserves the right to make decisions concerning operations and other health matters if parents cannot be reached at a time when decisions seem imperative.

WITHDRAWAL AND EXCLUSION

A student who plans to withdraw must inform her class dean. The Recorder will then provide a withdrawal blank for the student's parents or guardian to sign. The official date of withdrawal is the date on which the signed blank is returned to the Recorder. In the event of involuntary withdrawal the official date of withdrawal is the day on which the student leaves.

The College reserves the right to require the withdrawal at any time of a student whose academic work falls below its standards or who in the opinion of the college authorities should not remain at Wellesley. In the latter case no specific reason need be assigned.

EMPLOYMENT OPPORTUNITIES

The Placement Office assists without charge those students and alumnae who are interested in employment. It helps students to obtain summer positions and part-time work in the winter and helps seniors and alumnae to locate positions upon graduation and later in their careers.

The Office maintains a library of vocational literature on current positions and future career possibilities; holds lectures and discussions for students on various occupations; supplies information about training courses, apprenticeships, and graduate assistantships; and schedules interviews for seniors with the employers who recruit at the College.

Seniors and alumnæ are invited to register in the Placement Office if they wish to hear of openings and wish to have their employment credentials collected and kept up to date in the years to come for future use.

During the academic year part-time employment is available, except to freshmen during their first semester who are expected not to undertake paid jobs until they are familiar with the academic demands on their time. Caring for children offers the largest number of work opportunities, various clerical and other jobs exist, and several exchanges and agencies on the campus provide regular work for a number of students and occasionally yield substantial returns. However, students are cautioned against depending on employment during the academic year for any considerable income. Summer positions are more varied and provide more remuneration

FEES AND EXPENSES

THE ANNUAL FEE

The inclusive annual fee for tuition, board and room is $3,100. This fee represents approximately three-fifths of the cost to the College for each resident student; the difference is made up from gifts and the income earned on endowment funds. The fee includes a reservation payment of $200 which constitutes an agreement to make the remaining payments on the dates due and reserves a place in the College for the student.

The General Deposit

Each entering student is required to deposit $50 which is refunded after graduation or withdrawal after deducting any special charges which were not previously paid. If the deposit is depleted at any time, replenishment will be required.

Plans of Payment for 1968-1969

The fee is due in full on September 1. After the Reservation Payment of $200 is paid, and for entering students the General Deposit of $50, a payment of $2,900 will meet the financial obligation for one year.

Plans for payments are also available: the Standard Plan and a Deferred Monthly Payment Plan are described briefly below. A complete description is obtainable from the Controller and is routinely supplied to the parents of entering students.

All checks should be made payable to Wellesley College and sent to the Controller. All fees which are due must be paid before the student may begin or continue class attendance, and all financial obligations to the College must be discharged before the diploma is awarded.

Undergraduate students who wish information concerning nonresident fees should write to the Controller after establishing nonresident status with the Dean of Students. Graduate students should consult the bulletin on *Graduate Study at Wellesley College.*

Standard Plan

First Payment—New students admitted under the Early Decision Plan:

February 1	Reservation payment	$ 200
May 1	General deposit	50
		$ 250

New students admitted under the April Decision Plan:

May 1	Reservation payment	$ 200
May 1	General deposit	50
		$ 250

Returning students:

July 1	Reservation payment	$ 200

Second Payment—For all students:

September 1	$1,750

Third Payment—For all students

January 15	$1,150

The total of these payments is $3,100 aside from the $50 General Deposit for students entering College.

If financial aid is granted and the Standard Plan is elected, the aid will usually be applied one-half to the September payment and one-half to the January payment.

Deferred Monthly Payment Plan

The College will accept payments made through any bank or trust company or recognized financing agency which will forward these payments in accordance with the Standard Plan.

Arrangements have been made through one such financing agency to offer a monthly or extended payment plan to cover payments due the College. This plan includes provisions for insurance and can be arranged for any reasonable sum of money or length of time. Information about the plan is sent to the parents of all entering stu-

dents and is available to others upon request to the Controller, Wellesley College.

WITHDRAWAL

The reservation payment is not refundable at any time. Additional payments made before the opening of College in the fall are refundable only prior to that time.

The necessity of meeting fixed charges prohibits withdrawal rebate in excess of $17 for each remaining full academic week calculated from January 1 or the withdrawal date, whichever occurs later.

In the event of withdrawal of a student with scholarship assistance, the proceeds of all refunds will be applied first to the scholarship account.

SPECIAL FEES AND EXPENSES

A fee of $250 is charged for each unit taken for credit in excess of five in any semester. A fee of $50 is charged for validating in September each unit of work done independently during the summer or taken in other institutions in excess of the units accepted for automatic transfer. Exception is made only for the student who is replacing a unit dropped in an earlier semester for health reasons and with the approval of the class dean or who is replacing a unit dropped for some other reason before the middle of a semester and with the approval of the class dean.

Fees for instrumental and vocal lessons are stated under Music. Infirmary fees for care in excess of the free days allowed by the College are stated under Health Provisions. Information concerning optional health and accident insurance will be mailed to all parents by the Controller. Students may incur special charges for damages, laboratory breakage, some sport and class supplies, and automobile parking.

A non-refundable application fee of $15 is required of all applicants for admission or readmission. There are no other general college fees.

THE BUILDINGS AND EQUIPMENT

All of the buildings described below are located on the campus, a five hundred acre tract of rolling meadow and woodland which borders on a natural lake one mile in length. The campus contains special plantings in the Hunnewell Arboretum and the Alexandra Botanic Gardens, the Hay Outdoor Theatre, and ample facilities for a wide range of land and water sports.

ACADEMIC AND COMMUNITY BUILDINGS

Billings Hall, erected in 1880 as a music college, was remodeled in 1962 to provide a center for student organizations and in 1968 to provide a lounge for cross-registrants from the Massachusetts Institute of Technology.

Simpson Infirmary was the gift of M. H. Simpson in memory of his wife, who had been a trustee of the College. It was erected in 1881 as a residence hall, later became the infirmary, and now provides living quarters for members of the staff. In 1942 a new wing containing a 29-bed hospital and a clinic was erected and connected with the old infirmary.

The Houghton Memorial Chapel was presented in 1899 by Miss Elizabeth G. Houghton and Clement S. Houghton as a memorial to their father, William S. Houghton, a trustee of the College. In it are stained glass windows commemorating the founder and several former members of the College, and a famous tablet by Daniel Chester French in memory of Alice Freeman Palmer, Wellesley's second president.

The Whitin Observatory, the gift of Mrs. John C. Whitin, a trustee of the College, was erected in 1900 and enlarged in 1962 and 1966. It contains laboratories, darkrooms, and the library of the department of Astronomy. Its research equipment includes a six-inch, a twelve-inch, and a twenty-four inch telescope.

Mary Hemenway Hall, the gymnasium, was erected in 1909 when the Boston Normal School of Gymnastics affiliated with the College and Mrs. Mary Hemenway of Boston provided the funds for this building. Classes for indoor sports and modern dance are conducted here and in the Recreation Building. Outdoor sports center around the Boathouse which houses the canoes and crew shells, the Golf House on the nine-hole course, sixteen tennis courts, and the hockey and lacrosse fields.

THE LIBRARY BUILDING, erected in 1910 and enlarged in 1916, was the gift of Andrew Carnegie. In 1957 a wing which doubled its size and in 1958 a complete remodeling of the original building and the installation of a language laboratory were the gifts of alumnae and friends, especially of David M. Mahood and Mrs. Helen M. Petit in memory of Helen Ritchie Petit of the Class of 1928. The Library Building contains approximately 315,000 volumes which include a number of special collections, among them the English Poetry Collection created by George Herbert Palmer and added to by Katharine Lee Bates, Elizabeth Manwaring, and Sara Teasdale, the Browning Collection, the Plimpton Collection of Italian books and manuscripts, and the Elbert Collection on the Negro in slavery. Two other collections, the Laura Hibbard Loomis Collection of Medieval Literature and the collection on the Far East given by the Mayling Soong Foundation, while not housed separately, enrich the resources of the library. The Rare Book Collection contains manuscripts and a small collection of rare books and first editions which range in time from a copy of the Ratdolt Euclid printed in 1482 to the books issued by the contemporary Grabhorn Press. Another 80,000 volumes are located in the Art, Music, and Science departmental libraries.

THE ANNE L. PAGE MEMORIAL SCHOOL for young children occupies a small building, in which there are one-way screens enabling students to observe the children effectively without themselves being seen.

FOUNDERS HALL, a classroom building for the humanities, social sciences, and mathematics, was erected in 1919. Dedicated as a memorial to Mr. and Mrs. Henry Fowle Durant, it was built from the Restoration Fund which trustees, faculty, alumnae and friends of the College secured after the College Hall fire.

ALUMNAE HALL, the gift of the alumnae, was built in 1923. It houses the largest auditorium on the campus, a ballroom, and "The Well," the campus snack bar.

SAGE HALL, is named in honor of Mrs. Russell Sage, its principal donor. The unit for botany and bacteriology was erected in 1927 and that for zoology and physiology in 1931. In 1956 the building was remodeled and enlarged to provide facilities also for geography and geology. It now contains the laboratories, lecture rooms, and offices of the departments of Biological Sciences and Geology, a library, a teaching museum, and display areas. Equipment for the

research of students and faculty includes greenhouses with a range of climates from tropic to desert, a vivarium, an aquarium, and extensive map collections.

Hetty H. R. Green Hall, erected in 1931, was in large part the gift of Mrs. Green's son and daughter, Colonel Edward H. R. Green and Mrs. Matthew A. Wilks. It contains the administrative offices, the faculty assembly hall, class and seminar rooms, and an interdepartmental statistical laboratory. The Galen L. Stone Tower, named for its donor, who was long a trustee of the College, houses a carillon which was the gift of Mrs. Charlotte Nichols Greene.

Pendleton Hall, erected in 1935, was named at the request of the students in honor of Ellen Fitz Pendleton, president of the College from 1911 to 1936. It contains the laboratories, lecture rooms, libraries, and offices of the departments of Chemistry, Physics, and Psychology. Extensive facilities and equipment provide opportunity for advanced work in various fields of chemistry, including chemical spectroscopy and instrumental analysis; in optics, electronics, and atomic physics; and in various types of experimental psychology.

The Recreation Building was opened in 1939. It contains game rooms, badminton and squash courts, lounges, and the George Howe Davenport Swimming Pool which bears the name of the trustee who gave generously toward its construction.

The Jewett Arts Center, completed in 1958, was the gift of the late Mr. George Frederick Jewett, his wife (now Mrs. David Gaiser), their son, George Frederick Jewett, Jr., and their daughter, Mrs. William H. Greer, Jr. Mrs. Gaiser, a trustee of Wellesley College, is an alumna, as is her daughter and as was Mr. Jewett's mother. The Center consists of the Mary Cooper Jewett Art Building and the Margaret Weyerhaeuser Jewett Music and Drama Building.

The Mary Cooper Jewett Art Building contains the museum, slide collections, classrooms, studios, study rooms and offices of the Art Department and, through the use of a bequest from Mrs. William Hewson Baltzell, a trustee of the College from 1930 to 1938, the Art Library. The museum collection contains choice examples of classical and medieval art; sculptures by Sansovino, Lehmbruck, and Maillol; a famous early Corot and other paintings by such artists as Crespi, Magnasco, Strozzi, Terborch, Cezanne, and Picasso; and, on extended loan, some masterpieces from the Norton Simon Foundation.

THE MARGARET WEYERHAEUSER JEWETT MUSIC AND DRAMA BUILDING contains the music library of books, scores, and recordings; listening rooms, practice studios, classrooms, and offices of the Music Department, and a variety of musical instruments including a baroque organ, a clavichord, and a harpsichord; also a rehearsal room and workshop for the College Theatre, and an auditorium seating 350 people for lectures and concerts and for experimental theatre.

WELLESLEY COLLEGE CLUB, completed in 1963, is a center for faculty and alumnae. It has a few bedrooms for official guests, alumnae, and parents of students and prospective students.

RESIDENCE HALLS

The thirteen residence halls for undergraduate students compose three groups on the campus. Each group is approximately the same distance from the central academic buildings. In the northwest section are Munger Hall and Hazard Quadrangle, which is formed by four halls, Beebe, Cazenove, Pomeroy, and Shafer. Tower Court, Claflin, and Severance Halls are together on the hill overlooking Lake Waban where the original College Hall once stood. The third group stretches east from Stone and Davis on the lake shore to Bates, Freeman, and McAfee Halls.

MUNGER HALL, which houses about 125 students, was given by Miss Jessie D. Munger, of the Class of 1886, in honor of her mother, Gertrude C. Munger. Each of the halls in the HAZARD QUADRANGLE, which is named in honor of Wellesley's fifth president, accommodates about 120 students. BEEBE was made possible by a legacy from Captain John Allen Beebe, a Nantucket sea captain and the father of Alice B. Beebe, of the Class of 1896. CAZENOVE, the gift of Pauline Durant, who with her husband founded the College, bears the name of Mrs. Durant's mother; POMEROY, too, is named for its donor, Mrs. Martha D. Pomeroy, who bequeathed the funds to build it. SHAFER honors the memory of Wellesley's third president.

TOWER COURT, so named because of its tower in the central part separating the two wings and because of its courtyard overlooking the lake, houses approximately 235 students. It was the gift of

Ellen Stebbins James. Claflin accommodates about 120 and Severance 145 students. Claflin is named in memory of William Claflin, Governor of Massachusetts and a member of the original corporate body of the College in 1870, while Severance bears the name of Elizabeth Severance Prentiss, of the Class of 1887, who was the largest individual donor to the building.

Stone and Davis Halls house about 100 students each. The present Stone Hall was built on the site of old Stone Hall, which was made possible by a gift from Mrs. Valeria G. Stone. John D. Rockefeller, Jr. made generous contributions toward the present Stone and Davis Halls. Olive Davis, for whom Davis Hall is named, was a member of the Class of 1886 and for many years Director of Residence at Wellesley; upon her death she made Wellesley her residuary legatee.

Bates Hall is named in memory of Katharine Lee Bates, of the Class of 1880, for many years a professor of English literature at Wellesley; Freeman Hall in memory of Alice Freeman Palmer, Wellesley's second president; and McAfee Hall in honor of Mildred McAfee Horton, Wellesley's seventh president. These dormitories each house about 140 students.

SUMMARY OF STUDENTS IN 1967-1968

	Resident	*Non-resident*	*Class Totals*	*Totals*
Candidates for the B.A. degree	1,691	30		1,721
Seniors	371	25	396	
Juniors	395	4	399	
Sophomores	451		451	
Freshmen	469	1	470	
Unclassified	5	0	5	
Candidates for the M.A. degree	1	14		15
Non-candidates for degrees	4	2		6
Total registration September, 1967				1,742

Geographical Distribution of Students by Home Address

Alabama	13	Nebraska	7
Alaska	1	Nevada	1
Arizona	7	New Hampshire	25
Arkansas	4	New Jersey	117
California	67	New Mexico	7
Colorado	6	New York	247
Connecticut	109	North Carolina	18
Delaware	9	North Dakota	3
District of Columbia	22	Ohio	90
Florida	22	Oklahoma	7
Georgia	20	Oregon	7
Hawaii	5	Pennsylvania	95
Idaho	1	Rhode Island	15
Illinois	61	South Carolina	10
Indiana	25	South Dakota	1
Iowa	16	Tennessee	16
Kansas	9	Texas	42
Kentucky	16	Utah	1
Louisiana	9	Vermont	5
Maine	21	Virginia	62
Maryland	55	Washington	14
Massachusetts	257	West Virginia	5
Michigan	41	Wisconsin	20
Minnesota	27	Wyoming	1
Mississippi	2		
Missouri	32	Puerto Rico	2
Montana	4		

Students from Foreign Lands

Austria	1 (1)	Morocco	1 (1)
Bahamas	1 (1)	Nigeria	1 (1)
Belgium	3 (3)	Pakistan	2 (1)
Brazil	3 (3)	Philippines	1 (1)
Canada	6 (2)	Panama	1
Egypt	1	Saudi Arabia	1
England	4 (2)	South Africa	1 (1)
France	3 (2)	Spain	2 (2)
Germany	1 (1)	Sweden	1
Greece	1	Taiwan	3 (1)
Holland	1 (1)	Thailand	2 (1)
Honduras	1 (1)	Tunisia	1
Hong Kong	4	Turkey	1
India	1	Venezuela	2 (1)
Italy	1 (1)	Vietnam	1
Jamaica	2		
Japan	2 (2)	Total Students	1,742
Korea	2 (1)		
Malaysia	4	*Parentheses indicate U. S. citizens*	

ALUMNAE INTERESTS

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The College welcomes outright gifts of cash, gifts of securities and gifts of other property. The College provides income for life to donors who invest in either an Annuity or a Life Income Plan.

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An unrestricted bequest to Wellesley may be worded:

> "I give to Wellesley College, Wellesley, Massachusetts, the sum of ..... dollars."

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> "I give to Wellesley College, Wellesley, Massachusetts, the sum of ..... dollars, the income only to be used for ..... (here describe the purpose in as broad and simple terms as possible, as for example, faculty salaries or scholarships)." The more limited the use, the more important it is to add a provision such as, "If, in the future, the Trustees of the College determine that it is no longer practicable to use the income for this purpose, it may be used for other needs of the College."

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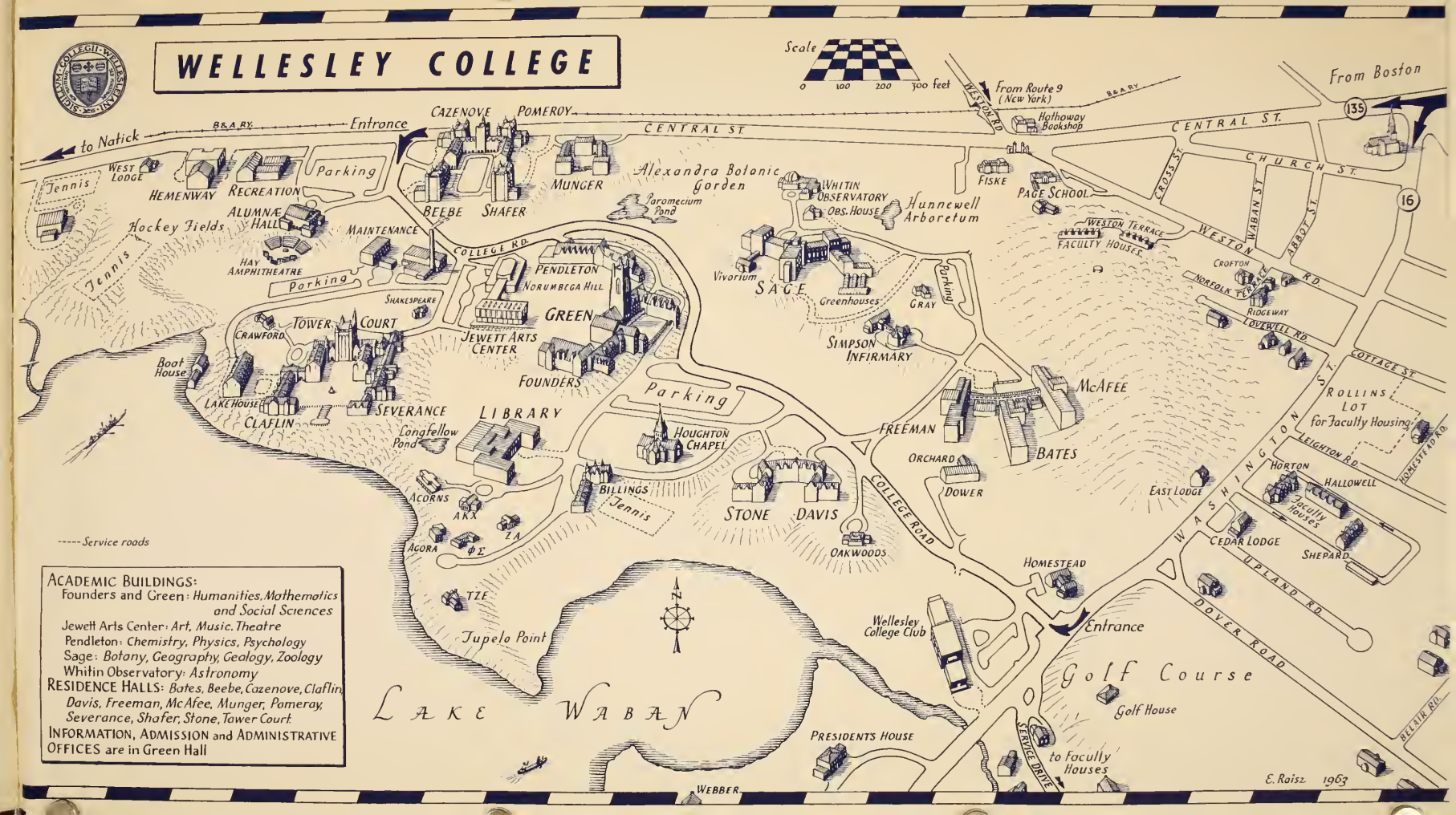
> "All the rest, residue and remainder of my real and personal estate, I give to Wellesley College, Wellesley, Massachusetts," et cetera.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Scale
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to Natick
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Entrance
CAZENOVE
POMEROY
CENTRAL ST.
WESTON RD.
Hathaway Bookshop
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ROSS ST.
WABAN ST.
ABBOT ST.
135
16
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Tennis
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E. Raisz 1963